

**CADD Roadway Drafting Reference Guide**  
**Illinois Department of Transportation**

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# Introduction

This Reference Guide prepared and distributed by the Illinois Department of Transportation (IDOT) is to promote uniform Computer Aided Drafting and Design (CADD) usage in roadway drafting. Also, these requirements and procedures provide a basis for common interchange of CADD related planimetric data files between the Illinois Department of Transportation, Division of Highways, and outside contractors and consultants. The guide is not a substitute for CADD knowledge, experience or judgment, nor is it a set of inflexible rules. Requirements listed in the Professional Transportation Bulletin (PTB) or individual district contract specifications may supersede some of the guidelines recommended in this publication. The Department's CADD professionals assume that the user's general level of understanding and prior knowledge is that of an experienced user of CADD technology.

The information and CADD data described in this guide are subject to change and is not a permanent commitment by the IDOT, Division of Highways. Organizations exchanging IDOT CADD data are responsible for ensuring they are using the current version of these requirements, CADD Reference Manuals, and IDOT cell files. IDOT assumes no responsibility for any errors that may appear in this document.

The following paragraphs state the Illinois Department of Transportation's current position regarding the exchange of CADD data.

# Graphic File Format

CADD compatible file for the IDOT Division of Highways means that all CADD files must be in MicroStation J .DGN format. This requirement ensures that IDOT receives a final product that is directly usable on IDOT's CADD systems without additional work. MicroStation J supports two file formats (J and 5.x). This allows the consultant and the Department to use J or 5.x versions of MicroStation and provide each other files in 5.x format. The Professional Transportation Bulletin contains the department's current version of MicroStation and upgrade plans. The responsibility for providing a complete, correct CADD data disk rests with the consultant or contractor. All CADD files provided by IDOT will also be in MicroStation J or 5.x .DGN format. This ensures that all planimetric data is available to the consultant or contractor and that there is no data loss in a translation process. IDOT will create and retain a duplicate set of these files.

The department utilizes MicroStation CADD software features that may not translate directly to other systems. For example, IDOT cell libraries define standard plan and plan and profile sheet borders. Another example is the department's use of reference files. IDOT prefers that the plan or plan and profile form utilize MicroStation's reference file feature. This permits plotting of final drawings using a "virtual" copy of the continuous design so that repeated changes will not be necessary in several places. When translated to some other CADD systems, the "virtual" move does not occur and sheets appear blank. Each of the CADD software vendors employs proprietary features that may also result in problems when translations are necessary. The responsibility to provide the department with correct and complete CADD data rests with the consultant or contractor.

## Reference Guide Updates

Changes in CADD roadway drafting by IDOT will result in periodic updates of this reference guide. All district systems receive these changes within a reasonably short time frame. The District's CADD systems normally receive software upgrades as they are produced.

Updates to this guide will be made available concurrently with the changes to the CADD systems.

## Obtaining Roadway Cell Libraries

The cell libraries and the CADD Roadway Drafting Reference Guide are updated as needed. It is the responsibility of the consultant or the contractor to use current cell libraries and to follow currently specified drafting procedures. In order to assure this, it is recommended that your firm's senior CADD person meet with his/her counterpart in the district before starting any new project work.

## CHAPTER 2

# Metric Set-Up Procedures For Design

### File Format

MicroStation Design files use a '.DGN' extension. MicroStation systems use a 'seed file' to create all successive design files. The 'seed file' provides standard parameters for each file created. This allows optimal accuracy and standardization. The 'seed file' parameters considered necessary to begin the design or edit session should include, but not be limited to, the parameters listed in this document. There are several other standards and parameters that the 'seed file' does not set. Non-seed file' parameters could include line weight, line style (that is, dashed, solid, etc.), color, and level assignment. The following narrative uses MicroStation specific commands and terminology to describe standardization with IDOT's use of CADD. The images used represent MicroStation Version 5.

### Plan & Cross Section Files

Every operation during a 2D-design session takes place relative to a design plane. The design plane is a Cartesian coordinate system upon which the design resides. There is a finite number of 'UNITS OF RESOLUTION', or UOR's that reside within the design plane. These UOR's may be divided into an intelligent definition and assigned real world values. The values that IDOT uses are defined one time in the seed file.

Format for the 'WORKING UNITS' is MU:SU:PU (Master Units, Sub Units, and Positional Units). There is a user-specified number of Sub Units per Master Unit and a user specified number of Positional Units per Sub Unit. The working units for plans are described by IDOT as 1 PU's per SU, and 1000 SU's per MU, with the Master Unit being one meter. This allows drawing precision to the nearest millimeter.

**Design File Settings**

**Category**

- Active Angle
- Active Scale
- Axis
- Color
- Coordinate Readout
- Element Attributes
- Fence
- Grid
- Isometric
- Locks
- Rendering
- Snap
- Stream
- Views
- Working Units**

**Modify Working Unit Parameters**

**Unit Names**

Master Units:

Sub Units:

**Resolution**

mm Per m

Pos Units Per mm

**Working Area**

4294967 m Square

**Focus Item Description**

Select category to view.

OK Cancel

**Design File Settings**

**Category**

- Active Angle
- Active Scale
- Axis
- Color
- Coordinate Readout
- Element Attributes
- Fence
- Grid
- Isometric
- Locks
- Rendering
- Snap
- Stream
- Views
- Working Units**

**Modify Working Unit Parameters**

**Unit Names**

Master Units:

Sub Units:

**Resolution**

mm Per m

Pos Units Per mm

**Working Area**

42949 m Square

**Focus Item Description**

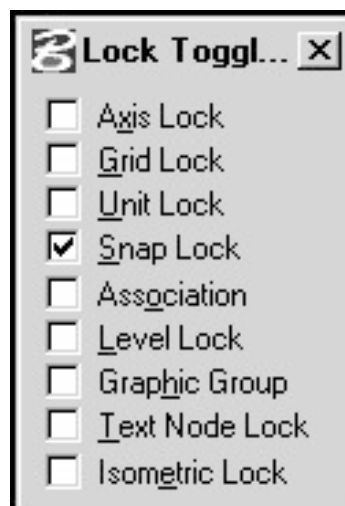
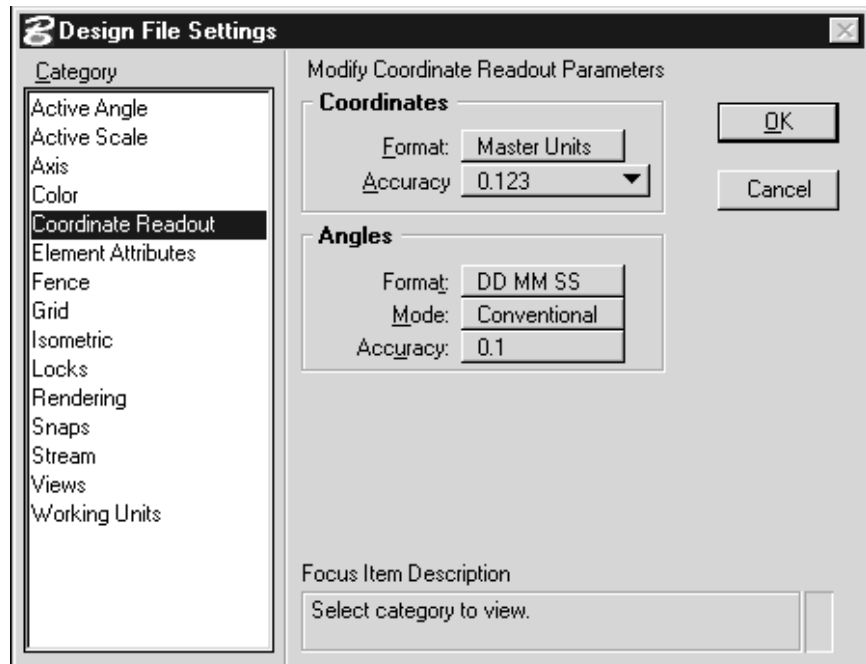
Select category to view.

OK Cancel

The working units for cross sections are described by IDOT as 10 PU's per SU, and 1000 SU's per MU, with the Master Unit being one meter. This allows drawing precision to the nearest tenth of a millimeter.

MicroStation allows the working units to be displayed in several different ways. The display specification may be reviewed or changed by selecting the 'settings' pull down menu and the coordinate readout dialog box. The format chosen by IDOT is decimal Master Units, having three significant digits to the right of the decimal point. In addition, within the same dialog box, angle format is selected specifying 'DEGREES, MINUTES, and SECONDS' to be used.

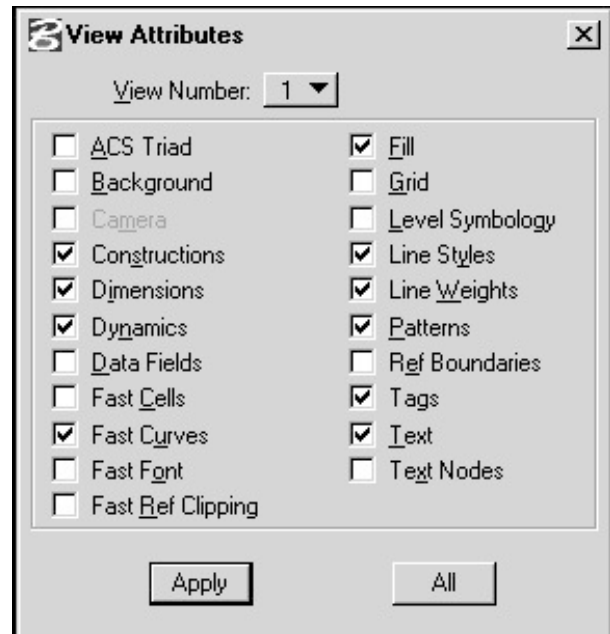
Rounding of numbers will occur during computations necessary for the design session to take place. Angle and Scale round-off values are specified using the coordinate readout dialog box. The IDOT specification is .0010 for Master Units and the specification for 'ANGLE ROUND OFF' is 0°0'0.0"



MicroStation uses a series of 'Locks'. All 'Locks' except 'SNAP KEYPOINT LOCK' should be toggled to the off position.

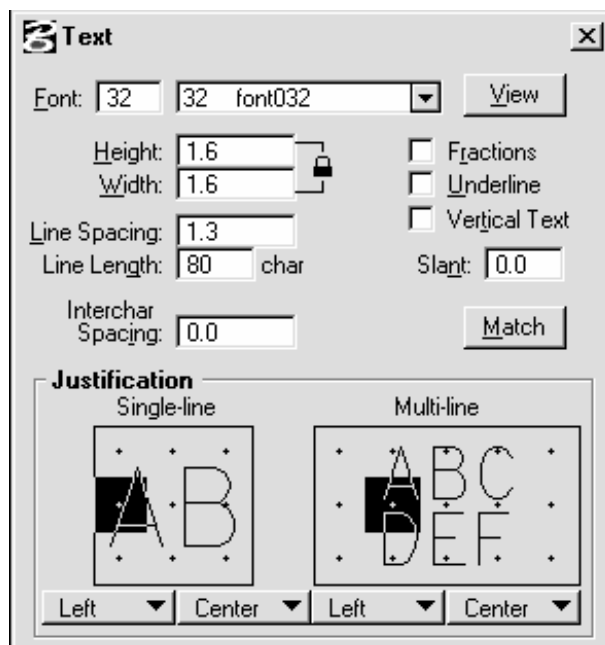
The 'DISPLAY ON/OFF' commands found in the **view attributes** dialog box permit certain classes of elements to be selectively eliminated from view in any 'DESIGN FILE'. The following figure shows the display settings used in the IDOT 'seed file'. The 'seed file' IDOT uses has the 'GLOBAL ORIGIN' set so the 0,0 is found the individual district) from State Plane Coordinates to reduce confusion over which coordinate system is being used.

'FAST DISPLAY' is a mode that will allow selection of four graphic representations, cells, curves, text, and font to be displayed in an abbreviated form. The IDOT specification for displaying the above elements is a full representation of each element.




The 'TEXT SIZE' specification used in the 'seed file' is 1.6 meters in height, and 1.6 meters in width. 'TEXT SIZE' is 1.6 meters when drawing at a ratio of 1:500,


the 'TEXT SIZE' should be changed as other scales are indicated. 'TEXT SIZE' size is selected using 'TX= (value)'. 'LINE SPACING' is also a parameter described in the 'seed file' and is set at 1.3 meters using 'LS= (value)'. The 'TEXT NODE LINE LENGTH' is set in the design file at a length of eighty characters. The values for 'TEXT SIZE', 'LINE SPACING' and 'TEXT NODE LINE LENGTH' are arbitrary values used to begin a design session; they are not necessarily standards for drafting.







Line Weight' is by IDOT definition a 'Non-Seedfile' parameter. 'Line Weight' can be described as line width ranging from the narrowest (weight 0) to the widest (weight 31). Line weight is changeable during an edit session using the key-in 'WT= (value)'. Differing line weights are necessary to describe and differentiate lines used to depict R.O.W.'s, easements, setbacks, properties, etc.

WT = 0 

WT = 1 

WT = 2 

WT = 3 

WT = 4 

WT = 5 

All design files created use a default font library. The IDOT default library is named 'fontlib.rsc.' Fonts most often used by IDOT are named 32, 40, and 115. Examples of the default font library are shown below.

FONT TYPE: 32  
 UPPER: ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 LOWER: abcdefghijklmnopqrstuvwxyz  
 NUMERALS: 1234567890  
 SPEC. CHAR.: €Δ@#\$\$%°&∠Ø±<>ℙ℔

FONT TYPE: 40  
 UPPER: ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 LOWER: abcdefghijklmnopqrstuvwxyz  
 NUMERALS: 1234567890  
 SPEC. CHAR.: €Δ@#\$\$%°&∠Ø±<>ℙ℔


**FONT TYPE: 115**  
**UPPER: ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**LOWER: abcdefghijklmnopqrstuvwxyz**  
**NUMERALS: 1234567890**  
**SPEC. CHAR.: ~!@#\$\$%^&{}|<>`\**

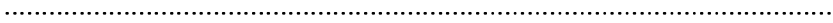
Colors are used by IDOT as an aid for the workstation operators. When a color is selected 'CO = (value)', a level is also selected 'LV = (value)' where the value is the same for both specifications. The only exception to 'color equals level' occurs when levels fifty-seven and fifty-eight are used to place utilities.

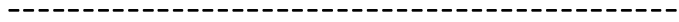
In such case, the colors used should adhere to the standards set forth by the American Public Works Association, Utility Location & Coordination Council Uniform Color Code. Copies of the Uniform Color Code may be purchased from:

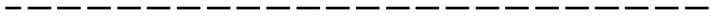
AMERICAN PUBLIC WORKS ASSOCIATION  
 1313 E. 60<sup>TH</sup> ST.  
 CHICAGO, IL 60637

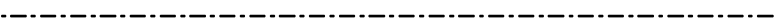
'Line Code' is another user definable parameter used by IDOT to allow discrimination of line descriptions. 'Line Code' is keyed in using 'LC= (value)' and can define solid, dotted, medium dashed, long dashed, etc. There are a total of eight line codes described by MicroStation using digits zero through seven for selection.

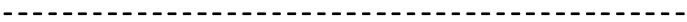
LC = 0 Solid Line 


LC = 1 Dotted Line 

LC = 2 Medium Dashed Line 

LC = 3 Long Dashed Line 

LC = 4 Dash-Dot Line 

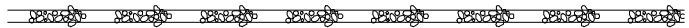
LC = 5 Short Dashed Line 

LC = 6 Dash-Dot-Dot Line 

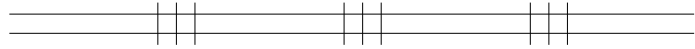
LC = 7 Long Dashed-Short Dashed Line 

IDOT has assigned specific user defined line styles for plan preparation and topographic data. Line styles have unique color, weight, and level based on their application. The Settings Manager provided by IDOT automates the selection and placement process for the user. A few line styles are shown below for examples. A complete list appears in Standard 000001 and in the Settings Manager. Many times the same line style applies to both existing and proposed work but will appear different due to color, weight, and level.

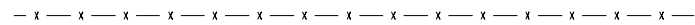
**Paved Ditch e1250 lv = 37**



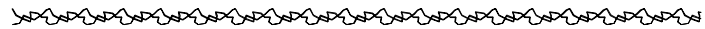
**Railroad e0134 lv = 38**



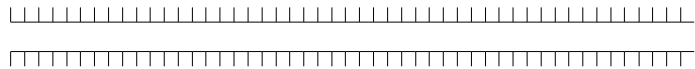
**Fence e0493 lv = 8**



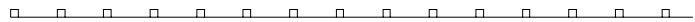
**Shrubs code C & D e0595 lv = 23**



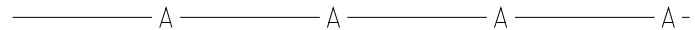
**Noise Attn./Levee e0111 lv = 8**



**Guardrail e0107 lv = 28**



**Elec. Aerial Cable e0726 lv = 15**



Settings manager (sm99e.stg for English and sm99m.stg for metric) provides access to project standard drawing components and settings. It is a drawing management tool to control cell placement, project symbology, custom line styles, scales and working units. The settings manager allows the designer to work in specific groups according to level requirements and to provide accuracy in placement of both existing and proposed data. The four primary actions the settings manager controls are cell placement, area patterning, text placement and line or line style placement. The scale settings (scales.stg) control the output to keep all the components in the same relative scale. The current settings manager and its related files, such as the abbreviation glossary and color tables, may be downloaded from the IDOT web site at any time.

## CHAPTER 2

# English Set-Up Procedures For Design

### File Format

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**Design File Settings**

**Category**

- Active Angle
- Active Scale
- Axis
- Color
- Coordinate Readout
- Element Attributes
- Fence
- Grid
- Isometric
- Locks
- Rendering
- Snap
- Stream
- Views
- Working Units**

**Modify Working Unit Parameters**

**Unit Names**

Master Units:

Sub Units:

**Resolution**

TN Per FT

Pos Units Per TN

**Working Area**

4294967 FT Square

**Focus Item Description**

Select category to view.

OK Cancel

**Design File Settings**

**Category**

- Active Angle
- Active Scale
- Axis
- Color
- Coordinate Readout
- Element Attributes
- Fence
- Grid
- Isometric
- Locks
- Rendering
- Snap
- Stream
- Views
- Working Units**

**Modify Working Unit Parameters**

**Unit Names**

Master Units:

Sub Units:

**Resolution**

TN Per FT

Pos Units Per TN

**Working Area**

429496 FT Square

**Focus Item Description**

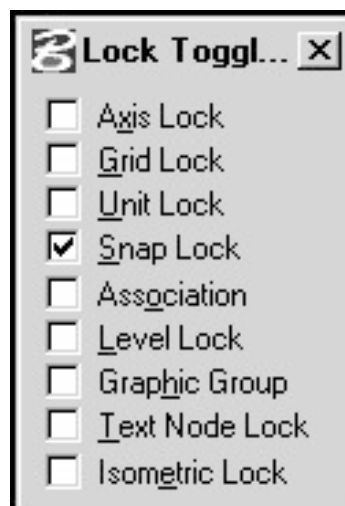
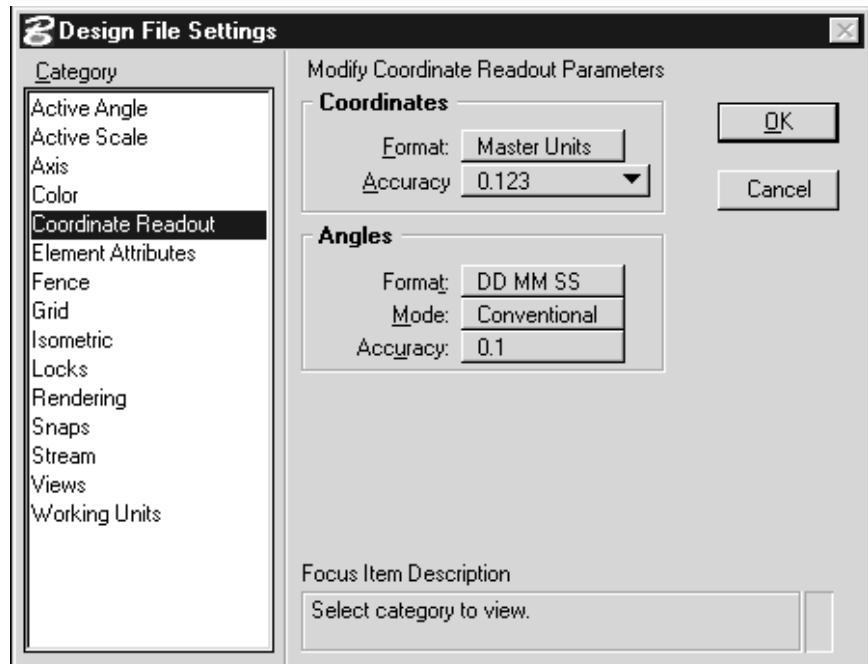
Select category to view.

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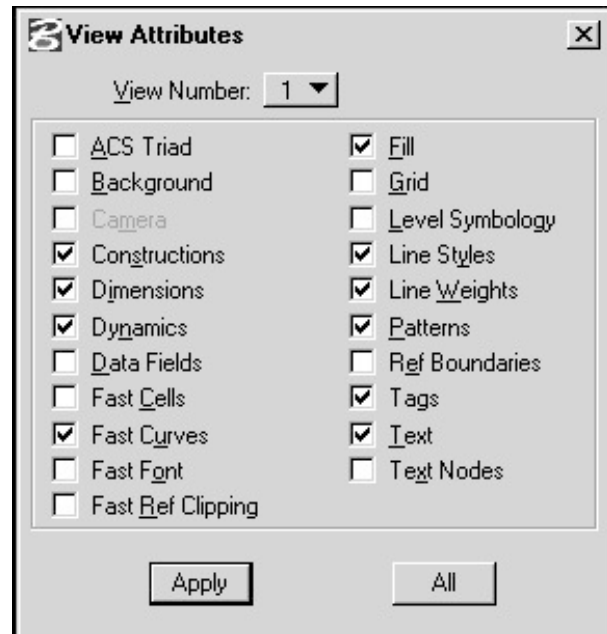
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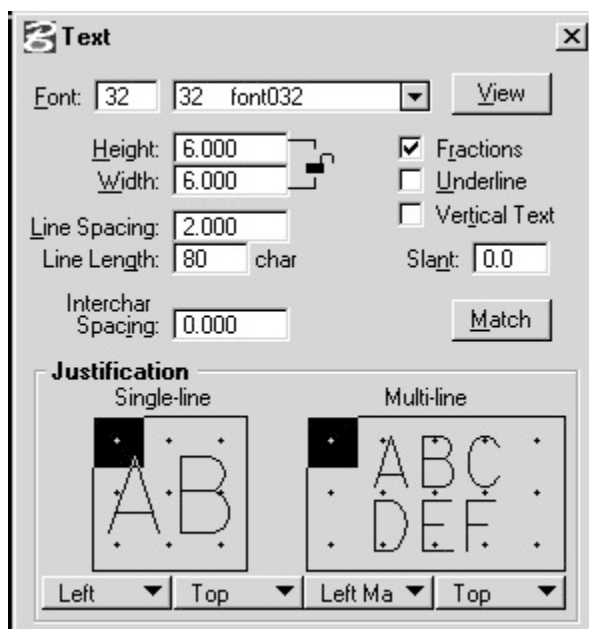
The 'DISPLAY ON/OFF' commands found in the **view attributes** dialog box permit certain classes of elements to be selectively eliminated from view in any 'DESIGN FILE'. The following figure shows the display settings used in the IDOT 'seed file'. The 'seed file' IDOT uses has the 'GLOBAL ORIGIN' set so the 0,0 is found the individual district) from State Plane Coordinates to reduce confusion over which coordinate system is being used.

'FAST DISPLAY' is a mode that will allow selection of four graphic representations, cells, curves, text, and font to be displayed in an abbreviated form. The IDOT specification for displaying the above elements is a full representation of each element.




The 'TEXT SIZE' specification used in the 'seed file' is six feet in height, and six feet in width. 'TEXT SIZE' is six feet when drawing at a ratio of 1:600, the 'TEXT


SIZE' should be changed as other scales are indicated. 'TEXT SIZE' size is selected using 'TX= (value)'. 'LINE SPACING' is also a parameter described in the 'seed file' and is set at five feet using 'LS= (value)'. The 'TEXT NODE LINE LENGTH' is set in the design file at a length of eighty characters. The values for 'TEXT SIZE', 'LINE SPACING' and 'TEXT NODE LINE LENGTH' are arbitrary values used to begin a design session; they are not necessarily standards for drafting.







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FONT TYPE: 32  
 UPPER: ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 LOWER: abcdefghijklmnopqrstuvwxyz  
 NUMERALS: 1234567890  
 SPEC. CHAR.: €Δ@#\$\$%°&∠Ø±<>ℙ℔

FONT TYPE: 40  
 UPPER: ABCDEFGHIJKLMNOPQRSTUVWXYZ  
 LOWER: abcdefghijklmnopqrstuvwxyz  
 NUMERALS: 1234567890  
 SPEC. CHAR.: €Δ@#\$\$%°&∠Ø±<>ℙ℔


**FONT TYPE: 115**  
**UPPER: ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
**LOWER: abcdefghijklmnopqrstuvwxyz**  
**NUMERALS: 1234567890**  
**SPEC. CHAR.: ~!@#\$\$%^&{}|<>`\**

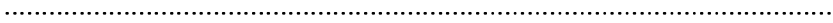
Colors are used by IDOT as an aid for the workstation operators. When a color is selected 'CO = (value)', a level is also selected 'LV = (value)' where the value is the same for both specifications. The only exception to 'color equals level' occurs when levels fifty-seven and fifty-eight are used to place utilities.

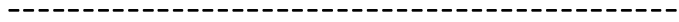
In such case, the colors used should adhere to the standards set forth by the American Public Works Association, Utility Location & Coordination Council Uniform Color Code. Copies of the Uniform Color Code may be purchased from:


AMERICAN PUBLIC WORKS ASSOCIATION  
 1313 E. 60<sup>TH</sup> ST.  
 CHICAGO, IL 60637

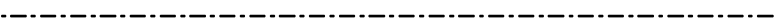
'Line Code' is another user definable parameter used by IDOT to allow discrimination of line descriptions. 'Line Code' is keyed in using 'LC= (value)' and can define solid, dotted, medium dashed, long dashed, etc. There are a total of eight line codes described by MicroStation using digits zero through seven for selection.

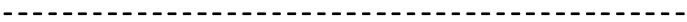
LC = 0 Solid Line 


LC = 1 Dotted Line 

LC = 2 Medium Dashed Line 

LC = 3 Long Dashed Line 

LC = 4 Dash-Dot Line 

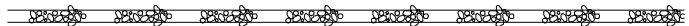
LC = 5 Short Dashed Line 

LC = 6 Dash-Dot-Dot Line 

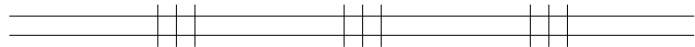
LC = 7 Long Dashed-Short Dashed Line 

IDOT has assigned specific user defined line styles for plan preparation and topographic data. Line styles have unique color, weight, and level based on their application. The Settings Manager provided by IDOT automates the selection and placement process for the user. A few line styles are shown below for examples. A complete list appears in Standard 000001 and in the Settings Manager. Many times the same line style applies to both existing and proposed work but will appear different due to color, weight, and level.

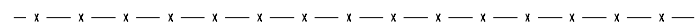
**Paved Ditch e1250 lv = 37**



**Railroad e0134 lv = 38**



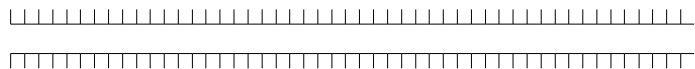
**Fence e0493 lv = 8**



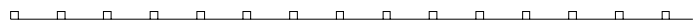
**Shrubs code C & D e0595 lv = 23**



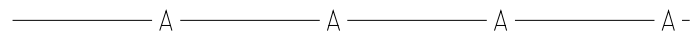
**Noise Attn./Levee e0111 lv = 8**



**Guardrail e0107 lv = 28**



**Elec. Aerial Cable e0726 lv = 15**



Settings manager (sm99e.stg for English and sm99m.stg for metric) provides access to project standard drawing components and settings. It is a drawing management tool to control cell placement, project symbology, custom line styles, scales and working units. The settings manager allows the designer to work in specific groups according to level requirements and to provide accuracy in placement of both existing and proposed data. The four primary actions the settings manager controls are cell placement, area patterning, text placement and line or line style placement. The scale settings (scales.stg) control the output to keep all the components in the same relative scale. The current settings manager and its related files, such as the abbreviation glossary and color tables, may be downloaded from the IDOT web site at any time.

## CHAPTER 3

# Metric Design Naming Conventions

### IDOT Naming Procedure

#### Project Naming Convention

The districts will assign project numbers that will reside with a job for its duration. The first character of the project will indicate the type of working units, M for metric and E for English, followed by the bureau code, sequence number and year. The design file name will be limited to an eight-character field.

For example: State Job Number P-91-051-86 will be MP05186 for a Metric project.

#### Valid Bureau Codes

|                         |   |
|-------------------------|---|
| Administrative Services | A |
| Construction            | C |
| Design                  | D |
| Electric                | E |
| Land Acquisition        | L |
| Maintenance             | M |
| Planning                | P |
| Local Roads and Streets | R |
| Expressway Surveillance | S |
| Traffic                 | T |
| Materials               | X |

#### SEQ. Number

This is the 3 digit sequential number from the State-Job-Number.

#### Year

This is a calendar year from the State-Job-Number for all jobs except Land Acquisition. This is fiscal year from the State-Job-Number for Land Acquisition jobs.

**File Naming Conventions**

We recommend that design files be limited in size to 2.0-2.5 Mb and should always break before and after any major intersection or structure. When assigning the names, it is recommended to use file names that are sequential and relative to their contents, for example:

|            |   |
|------------|---|
| PLN001.DGN | would be a topo file.   |
| SHT001.DGN | would contain any sheets that an operator uses during the course of plan preparation. |
| TIN001.DGN | is used by the designer for TIN model placement.                                      |
| XSEC01.DGN | is used by the designer for placing existing and proposed cross sections.             |

The districts will assign the project number to a job when the Aerial Surveys Section passes aerial photography projects to them. It will be the responsibility of the districts to maintain the name convention link between their project number and the previous number as signed by Aerial Surveys. If Aerial Surveys is to provide a vendor with files, the appropriate district should be notified and involved to assign the proper job number for the files being transmitted.

**Pertinent Project Information**

|   |                        |
|---|------------------------|
| ROUTE: U.S. 30                            | Aerial Project: D-1622 |
| FA Route Designation: FAP 607             |                        |
| Project Limits: Ill. Rte. 59 to Briar St. |                        |
| Sta. 15+000 to Sta. 21+300                |                        |
| County: Will                              |                        |
| State Job Number: P-91-051-86             | Project: MP05186       |

**FILES TRANSMITTED**

|              |                       |                                 |
|--------------|-----------------------|---------------------------------|
| SHT001.DGN;1 | 15+000 - 15+350       | Douglas St.-Wilcox/Mason        |
| SHT002.DGN;1 | 15+350 - 15+700       | Wilcox/Mason                    |
| SHT003.DGN;1 | 15+700 - 16+050       | Black Rd/Ruby St/Raynor Ave.    |
| SHT004.DGN;1 | 16+050 - 16+400       | Schriber Ave/Waverly Pl.        |
| SHT005.DGN;1 | 16+400 - 16+750       | Williams Street                 |
| SHT006.DGN;1 | 16+750 - 17+100       | Clara Ave.                      |
| SHT007.DGN;1 | 17+100 - 17+450       | Ingalls Ave.                    |
| SHT008.DGN;1 | 17+450 - 17+800       | Ingalls Ave. - Connecticut Ave. |
| SHT009.DGN;1 | 17+800 - 18+150       | Connecticut Ave-Massachusetts   |
| SHT010.DGN;1 | 18+150 - 18+500       | Pennsylvania Ave.               |
| SHT011.DGN;1 | 18+500 - 18+850       | Buckman Ave.                    |
| SHT012.DGN;1 | 18+850 - 19+200       | Buckman Ave-Ill 7 (Theodore)    |
| SHT013.DGN;1 | 19+200 - 19+550       | Ill 7 - Larkin Ave.             |
| SHT014.DGN;1 | 19+550 - 19+900       | Larkin Ave.                     |
| SHT015.DGN;1 | 19+900 - 20+250       | E.J. & E. RR                    |
| SHT016.DGN;1 | 20+250 - 20+600       | Leness Lane                     |
| SHT017.DGN;1 | 20+600 - 20+950       |                                 |
| SHT018.DGN;1 | 20+950 - 21+300       | Fern St.-Sweet Briar St.        |
| SHT019.DGN;1 | Plan & Profile Sheets |                                 |

## CHAPTER 3

# English Design Naming Conventions

### IDOT Naming Procedure

#### **Project Naming Convention**

The districts will assign project numbers that will reside with a job for its duration. The first character of the project will indicate the type of working units, M for metric and E for English, followed by the bureau code, sequence number and year. The design file name will be limited to an eight-character field.

For example: State Job Number P-91-051-86 will be MP05186 for a Metric project.

#### **Valid Bureau Codes**

|                         |   |
|-------------------------|---|
| Administrative Services | A |
| Construction            | C |
| Design                  | D |
| Electric                | E |
| Land Acquisition        | L |
| Maintenance             | M |
| Planning                | P |
| Local Roads and Streets | R |
| Expressway Surveillance | S |
| Traffic                 | T |
| Materials               | X |

#### **SEQ. Number**

This is the 3 digit sequential number from the State-Job-Number.

#### **Year**

This is a calendar year from the State-Job-Number for all jobs except Land Acquisition. This is fiscal year from the State-Job-Number for Land Acquisition jobs.

**File Naming Conventions**

We recommend that design files be limited in size to 2.0-2.5 Mb and should always break before and after any major intersection or structure. When assigning the names, it is recommended to use file names that are sequential and relative to their contents, for example:

|            |   |
|------------|---|
| PLN001.DGN | would be a topo file.   |
| SHT001.DGN | would contain any sheets that an operator uses during the course of plan preparation. |
| TIN001.DGN | is used by the designer for TIN model placement.                                      |
| XSEC01.DGN | is used by the designer for placing existing and proposed cross sections.             |

The districts will assign the project number to a job when the Aerial Surveys Section passes aerial photography projects to them. It will be the responsibility of the districts to maintain the name convention link between their project number and the previous number as signed by Aerial Surveys. If Aerial Surveys is to provide a vendor with files, the appropriate district should be notified and involved to assign the proper job number for the files being transmitted.

**Pertinent Project Information**

|   |                        |
|---|------------------------|
| ROUTE: U.S. 30                            | Aerial Project: D-1622 |
| FA Route Designation: FAP 607             |                        |
| Project Limits: Ill. Rte. 59 to Briar St. |                        |
| Sta. 77+00 to Sta. 246+00                 |                        |
| County: Will                              |                        |
| State Job Number: P-91-051-86             | Project: MP05186       |

**FILES TRANSMITTED**

|              |                       |                                 |
|--------------|-----------------------|---------------------------------|
| SHT001.DGN;1 | 100+00 - 107+00       | Douglas St.-Wilcox/Mason        |
| SHT002.DGN;1 | 107+00 - 115+00       | Wilcox/Mason                    |
| SHT003.DGN;1 | 115+00 - 123+00       | Black Rd/Ruby St/Raynor Ave.    |
| SHT004.DGN;1 | 123+00 - 131+00       | Schriber Ave/Waverly Pl.        |
| SHT005.DGN;1 | 131+00 - 139+00       | Williams Street                 |
| SHT006.DGN;1 | 139+00 - 147+00       | Clara Ave.                      |
| SHT007.DGN;1 | 147+00 - 155+00       | Ingalls Ave.                    |
| SHT008.DGN;1 | 155+00 - 163+00       | Ingalls Ave. - Connecticut Ave. |
| SHT009.DGN;1 | 163+00 - 172+00       | Connecticut Ave-Massachusetts   |
| SHT010.DGN;1 | 172+00 - 180+00       | Pennsylvania Ave.               |
| SHT011.DGN;1 | 180+00 - 189+00       | Buckman Ave.                    |
| SHT012.DGN;1 | 189+00 - 197+00       | Buckman Ave-Ill 7 (Theodore)    |
| SHT013.DGN;1 | 197+00 - 206+00       | Ill 7 - Larkin Ave.             |
| SHT014.DGN;1 | 206+00 - 214+00       | Larkin Ave.                     |
| SHT015.DGN;1 | 214+00 - 223+00       | E.J. & E. RR                    |
| SHT016.DGN;1 | 223+00 - 230+00       | Leness Lane                     |
| SHT017.DGN;1 | 230+00 - 238+00       |                                 |
| SHT018.DGN;1 | 238+00 - 246+00       | Fern St.-Sweet Briar St.        |
| SHT019.DGN;1 | Plan & Profile Sheets |                                 |



## CHAPTER 4

# Metric Photogrammetric Mapping Systems

### **General**

These guidelines are to be used for the preparation of all large-scale mapping of 1:1200 or larger.

### **Compilation**

Mapping shall be compiled by photogrammetric methods using precision photogrammetric instruments. Unless otherwise stated, mapping standards designed for highway district use are to be used. See Exhibits A & B at the end of this chapter.

### **Editing**

Compilation drawings shall be prepared in such a way that maps possess clear symbol definition at the specified scale. These guidelines shall be used for the following items:

|                         |                             |
|-------------------------|-----------------------------|
| Line weights and styles | Text style                  |
| Lettering placement     | Text size                   |
| Symbology               | Treatment of marginal notes |

### **Map Contents**

#### **Map Coordinates**

A coordinate grid system shall be established for all mapping and be shown as follows:

- When hard copies are requested, grid ticks shall be spaced at 200 mm intervals.
- Grid values shall be shown on the mapping manuscripts and shall be placed approximately 25 mm from the sheet edge.
- The vertical and horizontal data shall be identified on a title sheet.

Whenever ground control surveys are **not** tied to survey monuments of the Illinois Plane Coordinate System, a system of plane coordinates, positive in value, shall be established and numbered

Unless otherwise specified, all ground control surveys for the mapping shall be tied to the survey monuments of the existing State Plane Coordinate System to the North American Datum of 1983.

### **Planimetry**

The maps shall contain all planimetric features, which are visible or identifiable on, or are interpretable from, the aerial photography including land use features such as:

|  |                                  |               |
|--|----------------------------------|---------------|
| buildings  | canals                           | ditches       |
| reservoirs   | trails                           | levees        |
| railroads  | ferry slips                      | quarries      |
| borrow pits  | cemeteries                       | orchards      |
| wooded areas                                       | individual large trees           | culverts      |
| bridges  | trestles                         | tunnels       |
| piers  | retaining walls                  | dams          |
| power plants                                       | storage tanks (oil, water, etc.) | airfields     |
| transportation terminals                           | curb & gutter                    | sidewalks     |
| driveways  | hydrants                         | manholes      |
| telephone lines                                    | telegraph lines                  | paved ditches |
| roads (highways)                                   |                                  |               |
| transformer & other substations                    |                                  |               |
| electric power transmission lines, poles & towers. |                                  |               |

A field survey crew shall annotate features on photos that are not interpretable from the aerial photography. (See Exhibit D).

Buildings and similar dimensioned objects shall be correctly outlined and oriented, and shall be to actual size, except that dimensions smaller than 2.5 mm at map scale shall be symbolized by 2.5 mm in size. Minor irregularities in building outlines not represented by 1.25 mm at map scale shall be ignored.

The principal point of each photograph used in making the maps shall be shown on the maps.

Horizontal control stations used in making the maps shall be shown.

All mapped information shall be shown in accordance with the symbols, style, and line weights shown in Exhibit B.

### **Spot Elevations**

Digital Terrain Mapping (DTM) does not require spot elevations.

### **Contours**

Within accuracy requirements, contours shall be drawn to represent true elevation above mean sea level and the exact shape of the ground. Each contour shall be drawn as a solid line. Where the ground data is unreliable or cannot be seen due to heavy brush, tree cover, or other obstructions, it may be outlined with a VOID shape on level 60. The contours will be omitted in that area and the following note of explanation will be added to level 60, "GROUND DATA OMITTED DUE TO OBSTRUCTED VIEW". If you do not have this capability, the contours in such areas may be omitted or shown as dashed lines. The dashed lines shall be plotted as accurately as possible from the stereoscopic model. A note of explanation shall be added to the area.

To establish index contours, every fourth contour shall be accentuated as a heavier line than the intermediate three contours and shall be numbered according to its actual elevation above mean sea level. Index values shall be placed every 125 mm at map scale.

### **Names & Labels**

Text for control points and stand-alone objects shall be parallel to the main alignment. Labels for retaining walls, paved ditches, billboards, surface types may be parallel to the main alignment or to the object. Names for streets perpendicular to the main alignment should read from the right. Structures will be labeled parallel to the base of the structure.

### **Digital Terrain Model Data**

The MicroStation 3D file format will be used for all map files that contain DTM data. Lines that represent breaklines will be 3D elements and symbols that represent mass points will be 2D cells. Within accuracy requirements, the vertices of the breaklines and the mass point symbols placed in the design file shall represent true elevation above mean sea level and represent the exact shape of the ground. The mass point grid spacing shall not exceed 30 feet and breaklines shall be developed to provide a true representation of the ground surface.

All DTM files will contain the following:

- standard map features (see MAP CONTENTS)
- mass points on level 32
- breaklines on level 56
- void lines on level 60
- generated contours on level 26
- a boundary polygon on level 56

Deliverables to the Department on digital CD-ROM will consist of:

- 3D file (use extension “. 3d”) these files contain all mapping data.
- 2D file (use extension “. pln”) these files contain planimetric features only.
- ASCII files (use extension “. asc”) these files contain the DTM data in ASCII format.

### **Definitions**

Voids are ground areas that cannot be seen by a stereoplotter operator. The cause is usually foliage, but can be structures. Void lines are not required where building “lean” obscures the ground. The “void” line can be made of any number of segments, but must be made into a MicroStation complex shape upon completion. These are used in GEOPAK as “Void” lines during data extraction. Voids can be used where the DTM applications create an incorrect interpretation of the ground. A bridge deck that begins after a cantilevered section of pavement is one instance where a void placed along the cantilevered section and around the deck solves such a problem. Void Lines also have additional specifications of line weight 2, line code 2, color 2 and a complex shape.

Boundary Polygons, sometimes referred to as Sewing Edges, surround each mapped model. They consist of segments of profile that touch on all DTM elements at the mapping limits. When completed, the segments are made into a MicroStation complex element, complex status dropped and used in GEOPAK as a “Boundary” element during data extraction. The purpose of this is to

create a self-contained model, where contours stop at the map limits and can be recreated without the need for data from tie models. Boundary Polygons also have additional specifications of line weight 0, line code 2, color 14 and a complex element/dropped.

For further details on DTM, refer to the document titled "Standards for the Collection of Digital Terrain Model (DTM) Data".

### **Disposition Diagram**

A disposition diagram shall be prepared for each project to show the position and relationship of all mapping sheets and/or models to each other. The diagram shall include the following:

- coordinate system used to control the project
- proper positioning of horizontal ground control
- sheet layout and the delineation of the mapping model
- principal points and photo number of each photograph
- north arrow cell (c00294)
- model/file names
- sketch of roadway
- mapping limits
- date prepared
- initials of preparer
- scale of photography
- scale of diagram
- building classification cell (c00309)
- legend of symbols cell (c00391)
- disclaimer note cell (c00312)
- grid factor note with horizontal and vertical notes cell (c00301 for NAD 83 or c00293 for NAD 27)
- arbitrary grid note cell (c00322)
- title block cell (c00290)

A title block is to be included which shall consist of the following:

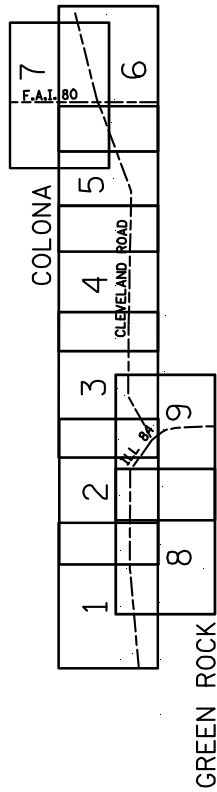
- scale of the mapping
- contour interval
- project numbers (Aerial Surveys & District)
- date of photography
- county(s) wherein the project lies
- brief geographical description of the location of the project

### **Title Sheet**

A title sheet shall be prepared for each photogrammetric project. The sheet shall include:

- north arrow cell (c00294)
- grid factor note with horizontal and vertical notes cell (c00301 for NAD 83 or c00293 for NAD 27)
- graphical relationship of mapping sheets to each other and/or stereo models to each other

# TITLE SHEET



|         |         |         |         |         |
|---------|---------|---------|---------|---------|
| SHEET 1 | SHEET 3 | SHEET 5 | SHEET 7 | SHEET 9 |
| 01      | 05      | 09      | 21      | 18      |
| 02      | 06      | 10      |         | 19      |
| SHEET 2 | SHEET 4 | SHEET 6 | SHEET 8 |         |
| 03      | 07      | 11      | 16      |         |
| 04      | 08      | 12      | 17      |         |

THIS MAP IS BASED ON THE ILLINOIS PLANE CO-ORDINATE SYSTEM REFERRED TO THE GEOMETRIC REFERENCE SYSTEM OF 1960. GROUND DISTANCE EQUALS MAP DISTANCE DIVIDED BY A GRID FACTOR OF  $0.999996$

MAP STATE PLANE COORDINATES REFLECT NAD 83 VALUES

THIS MAP MEETS THE AGENCY FOR MAPPING SPECIFICATIONS AS Laid DOWN BY THE FEDERAL HIGHWAY ADMINISTRATIONS, DEPARTMENT OF TRANSPORTATION. MAP USERS ARE REQUESTED THAT SHOULD YOU HAVE THIS MAP ENLARGED, THEN ANY MEASUREMENTS TAKEN FROM THE ENLARGEMENT ARE ONLY ACCURATE TO THE ORIGINAL COMPLETION SCALE.

**CLASSIFICATION OF BUILDINGS**

|            |                      |
|------------|----------------------|
| <b>C</b>   | <b>= COMMERCIAL</b>  |
| <b>R</b>   | <b>= RESIDENCE</b>   |
| <b>G</b>   | <b>= GARAGE</b>      |
| <b>S</b>   | <b>= SHED</b>        |
| <b>B</b>   | <b>= BARN</b>        |
| <b>M/H</b> | <b>= MOBILE HOME</b> |

[illegible]

GRID NORTH

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
BUREAU OF DESIGN AND ENVIRONMENT  
PREPARED BY

[illegible]

- listing of mapping sheets with corresponding alpha-numeric CADD Design File identification for each stereoscopic model
- sketch of centerline and major crossroads
- legend of symbols cell (c00391)
- building classification cell (c00309)
- title block cell (c00290)
- project number (Aerial Surveys)
- statement about the compilation method
- disclaimer note cell (c00312)

See Exhibit C for example of legend, title block, and building classifications.

### **Finished Maps**

#### **Digital Format**

All digital files containing map data will be delivered on storage media as required in the Computer Aided Drafting Electronic Data Transfer Standards. The files with the following extensions will be on this media: .3d, .pln, and .asc. [See page 27](#). A file with the layout of the models will be included. All photo enlargements containing identified cultural data, a control sketch and adjusted ground control data shall be included in a hard copy format.

#### **Hard Copy Format**

When a hard copy of the mapping is required, it shall be prepared on a double matte polyester film base of 100 microns (4 mils) thickness with a maximum width of 1.067 m and a maximum length of 1.422 m. All map details shall be plotted in a reverse reading format (data plotted on back side of polyester film). Each polyester film sheet shall be numbered in sequence and contain a north arrow and a title block. Labels were indicating sheet matches shall be included. A hard copy of a title sheet shall be included.

#### **Digital Orthophoto Map Preparation**

Orthophoto maps shall be prepared by using rectified digital imagery of the aerial photography. The digital imagery shall be coordinated with the same coordinate system used for the line mapping. All files of the digital orthophotos shall be compatible with the IDOT's MicroStation CADD system to allow the DTM files and generated contour files to be directly merged with the digital imagery to produce an orthophoto map.

Features such as road names, cities, rivers, creeks and streams are to be labeled.

A selection of contour colors shall be one that will have the most contrast with the predominant tone of the orthophoto when making hard copies. Hard copies shall be plotted on a stable polyester film with a minimum thickness of 100 microns (4 mils).

The final orthophoto map shall not contain any mismatched imagery that interfere with the interpretability of ground features or that are esthetically objectionable. Mismatches exceeding 1 mm are generally unacceptable and may be cause for rejection. Other defects that could cause rejection include out-of-focus imagery and inconsistencies in tone and density between individual orthophotos and/or adjacent map sheets.

### **Ditial Orthophoto Preparation**

Digital orthophotos shall be prepared according to the IDOT document entitled "ILLINOIS DEPARTMENT OF TRANSPORTATION - SPECIFICATIONS FOR DIGITAL IMAGERY PRODUCTS."

### **Title Blocks**

Each orthophoto map sheet shall contain the following title information:

- scale of mapping & contour interval
- project numbers (Aerial Surveys & District)
- sheet number
- project county(s)
- brief geographical description of project location
- compilation method
- photography date
- preparing agency
- North Arrow

See Exhibit C.

### **Accuracy**

All dimensions and measurements are applicable as specified by National Mapping Standards (NMS) in "Specifications for Aerial surveys and Mapping by Photogrammetric Methods for Highways," U. S. Department of Transportation, Federal Highway Administration, (rev.1986). The following sections restate their specifications.

### **Horizontal**

Ninety (90) percent of all planimetric features shall be shown on the finished map, accurate to within 1/16<sup>th</sup> cm of their true coordinate position, as stated in NMS. None of the planimetric features shown shall vary more than 1\8<sup>th</sup> cm, from their true coordinate position, at map scale. Horizontal Control points on the map shall be plotted to an accuracy of 0.25mm of their true horizontal coordinate position.

Coordinate Grid Lines or Tics on the map shall be plotted to an accuracy of 0.25mm of their true horizontal coordinate position.

### **Vertical**

Break lines and mass points in Digital Terrain Models (DTM's) shall be accurate to the extent that contours generated from their use will meet the vertical accuracy stated below.

Ninety (90) percent of contours appearing on a map, whether by conventional photogrammetric mapping or use of DEM / DTM's, shall be accurate within one-half (1/2) of the final map's contour interval, regarding vertical. Of the remaining ten (10) percent, none shall be in error by more than one (1) contour interval on the final map. Where conditions prevent attainment of this standard, use of a VOID shape (as defined for use in GEOPAK), or dashed contours, is recommended.

### **Checks of Map Accuracy**

Any post-mapping checks will consist of closed traverses, using the original basic control survey markers from which to proceed. Survey accuracy will conform to that of the basic control.

## **EXHIBIT A.**

### **GUIDELINES FOR USING DISTRICT STANDARDS GENERAL INFORMATION FOR PLOTTERS AND EDITORS**

#### **I. OPENINGS and CLOSURES: ([see examples on page 22](#))**

##### **A. ALL PUBLIC roads open to each other regardless of surface type**

1. side streets
2. alleys
3. frontage roads

##### **B. ALL PRIVATE and COMMERCIAL entrances closed at public roads regardless of surface type**

1. driveways
2. parking lots (public and private)
3. field entrances

#### **II. CURBS and GUTTERS: ([see examples on page 23](#))**

##### **A. Show gutter edge only when well defined and/or dimensioned, otherwise, show two parallel lines one (1) foot apart or to scale if applicable**

1. back line represents back of curb (level 28)
2. front line represents face of curb (level 28)
3. gutter line represents edge of pavement (level 27)

##### **B. Where applicable, carry gutter lines across all openings**

1. back line represents face of curb continuation (level 28)
2. front line represents edge of pavement (level 27)

#### **III. SIDEWALKS, ALLEYS and ENTRANCES: ([see examples on page 24](#))**

##### **A. Do not break the principal edge**

1. if the entrance goes through the sidewalk - break sidewalk
2. if the sidewalk goes through the entrance - break entrance
3. if the alley goes through the sidewalk - break sidewalk
4. if the sidewalk goes through the alley - break alley

##### **B. Show alley edges when they can be seen or located by a dimension. Alleys are to be labeled only under the following conditions:**

1. if alley is dimensioned but cannot be located - label as alley along with the dimension (example: 3.5 m ALLEY)
2. if edges cannot be interpreted and no dimensions given - label as alley (example: ALLEY)



IV. PAVEMENTS and SHOULDERS: ([see examples on page 25](#))

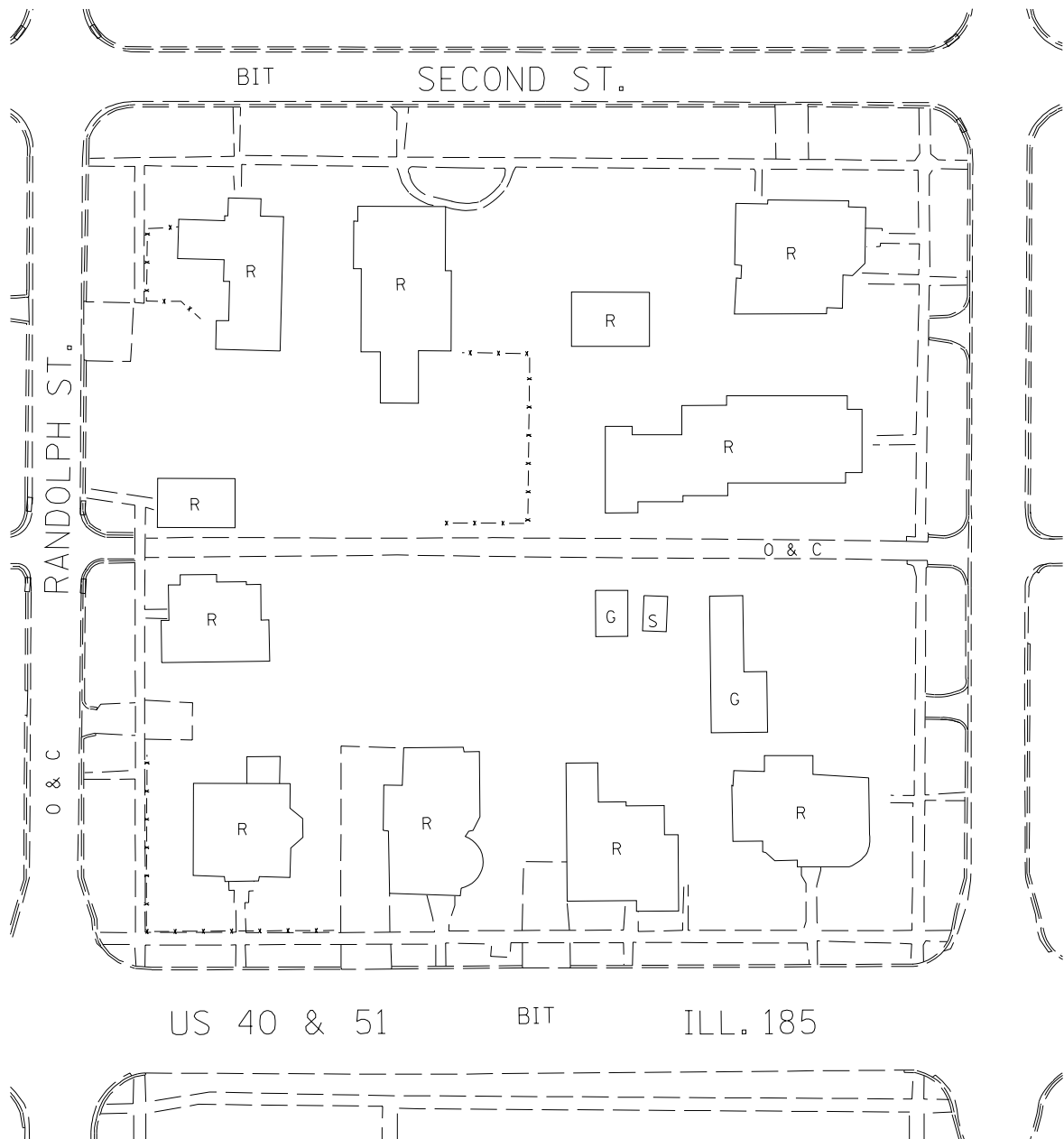
- A. Do not show unpaved shoulders
- B. Show paved shoulders only when well defined and/or dimensioned
  - 1. if dimensioned and cannot be seen - show out to out
- C. Show all entrance edges as seen and extend to hard surface
  - 1. if shoulder is paved - stop at shoulder
  - 2. if shoulder is not paved - stop at pavement edge
  - 3. if radii are visible - show them
  - 4. if radii are not visible - use straight lines

V. SURFACE TYPES (other than roads, alleys, etc.): ([see page 26](#))

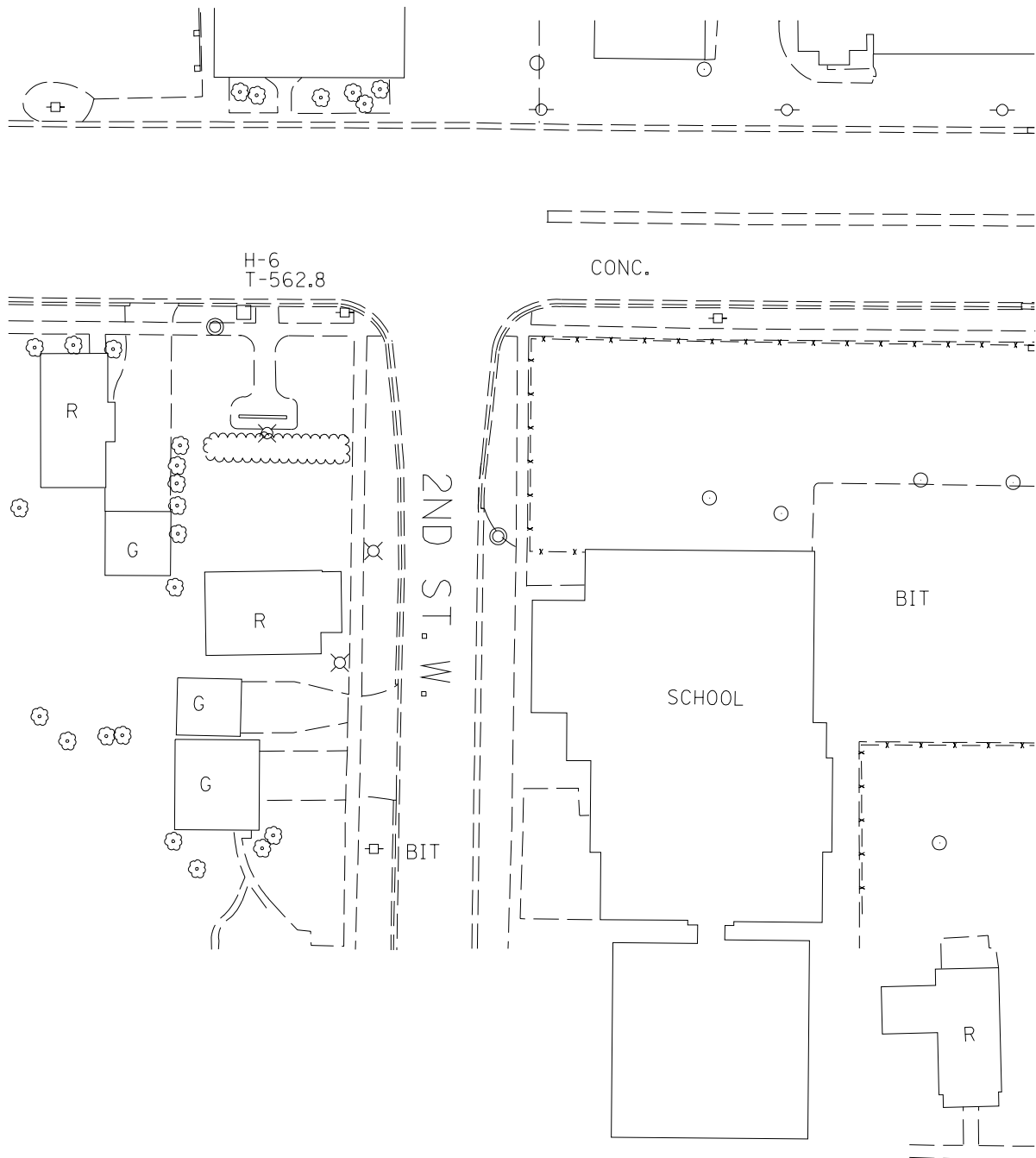
- A. Identified surface types
  - 1. plot and label
  - 2. show line of delineation if visible
- B. Unidentified surfaces with visible surface type changes
  - 1. plot
  - 2. do not label

VI. ANNOTATIONS:

- A. Label all identified objects
  - 1. if an object can be identified - label it (sign, billboard, etc.)
  - 2. if object mislabeled on photo - correct and note on photo
  - 3. do not label symbolized objects (trees, power & telephone poles, etc.)
- B. Text for plan features
  - 1. place in open area if possible
  - 2. do not break contours for text
- C. Text other than plan features
  - 1. plotter will break as before
  - 2. editor will not break or move if text is legible

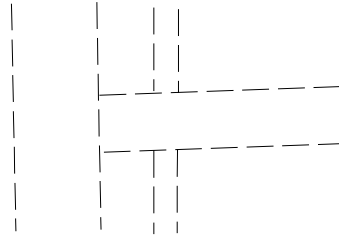


## EXAMPLES OF OPENINGS AND CLOSURES

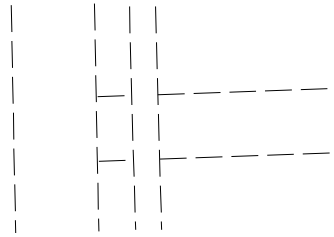


## EXAMPLE OF CURBS & GUTTERS

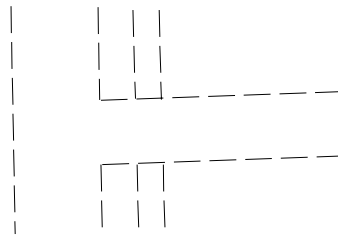
DRIVE AND SIDEWALK



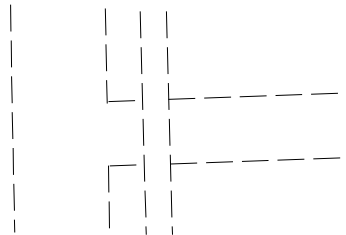
DRIVE AND SIDEWALK



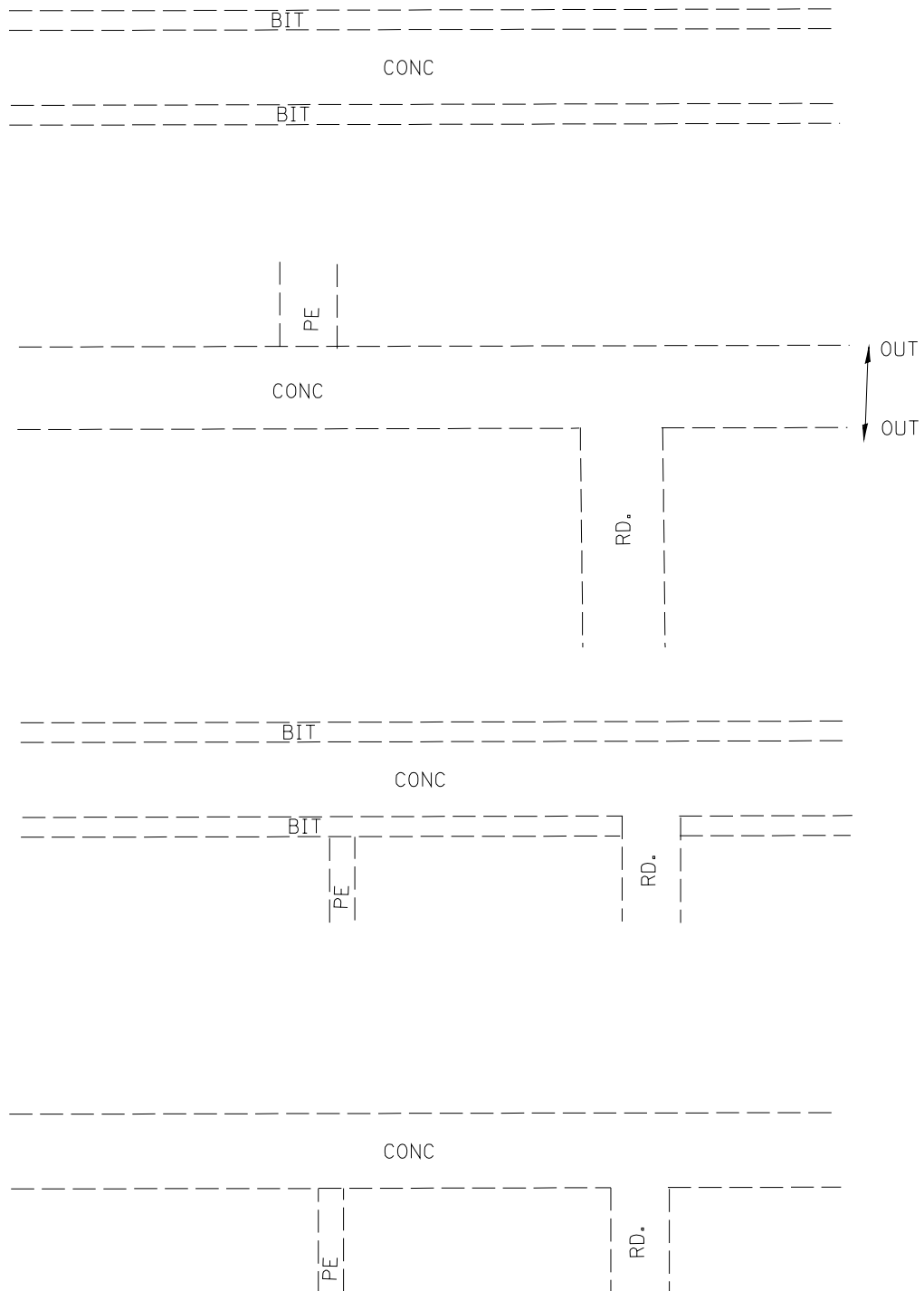
ALLEY AND SIDEWALK



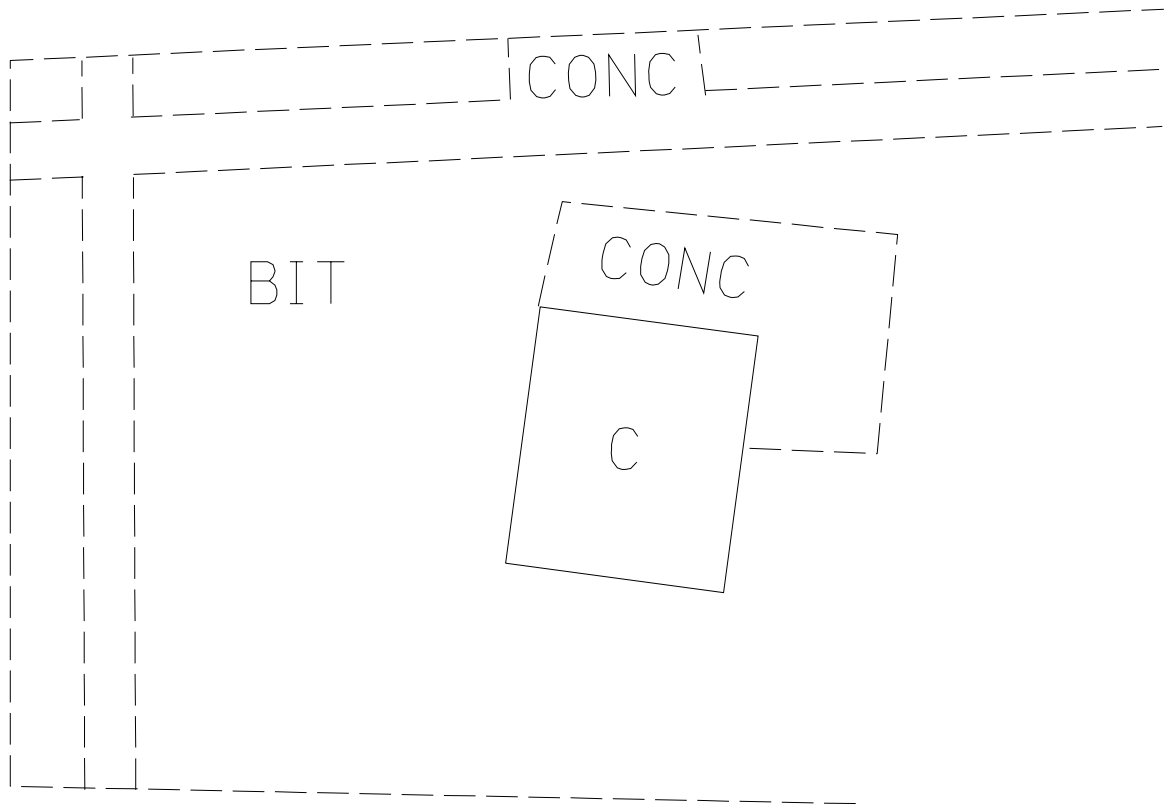
ALLEY AND SIDEWALK



## EXAMPLES OF SIDEWALKS, ALLEYS AND ENTRANCES

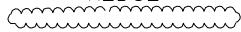






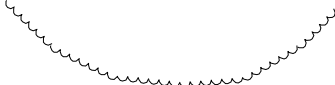





## EXAMPLES OF PAVEMENT AND SHOULDERS

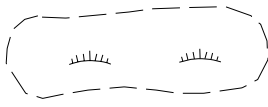

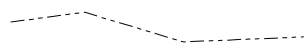


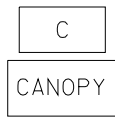






## SURFACE TYPES (OTHER THAN ROADS AND ALLEYS)

## EXHIBIT B-1

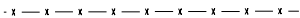
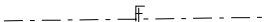
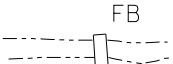







|  |   |  |
|--|---|--|
| HEDGE<br><br>LEVEL 4: VEGETATION   | <br>HEDGE  | <u>LS</u><br>e0265                                   |
| ORCHARD OR NURSERY<br><br>LEVEL 4: VEGETATION                                |  OR <br>PLOT TRUE POSITION OR OUTLINE AND ADD TEXT | <u>CELL</u><br>C00170 OR <u>LINE</u><br>WT=2<br>LC=4 |
| SCRUB AND VEGETATION OUTLINE<br><br>(LABEL IS A CELL)<br>LEVEL 4: VEGETATION | <br>SCRUB   | <u>LS</u><br>e0265 <u>CELL</u><br>C00264             |
| SHRUB AND BUSHES OUTLINE<br><br>LEVEL 4: VEGETATION                          | <br>BUSHES  | <u>LS</u><br>e0265                                   |
| SINGLE TREE OR BUSH<br><br>LEVEL 4: VEGETATION                               |    | <u>CELL</u><br>C00170                                |
| STUMP<br><br>LEVEL 4: VEGETATION   |    | <u>CELL</u><br>C00263                                |
| WOODS OUTLINE<br><br>LEVEL 4: VEGETATION                                     |   | <u>LS</u><br>e0265                                   |
| DISAPPEARING DITCH<br><br>LEVEL 5: WATER                                     |    | <u>CELL</u><br>C00361 <u>LINE</u><br>LC=6            |
| FLOW ARROW<br><br>LEVEL 5: WATER   | <br>ARROWHEAD SHOULD FORM<br>A DISTINCT POINT  |  |
| INTERMITTENT POND<br><br>LEVEL 5: WATER                                      | <br>INTERMITTENT WATER  | <u>LINE</u><br>LC=6                                  |

## EXHIBIT B-2







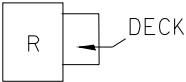
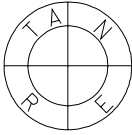


|   |   |                             |                     |
|---|---|-----------------------------|---------------------|
| MARSH OR SWAMP  |   | <u>CELL</u><br>C00171       | <u>LINE</u><br>LC=3 |
| LEVEL 5: WATER  |   |                             |                     |
| SHORELINE OF POND OR LAKE                             |    |                             | <u>LINE</u><br>LC=6 |
| LEVEL 5: WATER  |   |                             |                     |
| STREAM OR DRAINAGE DITCH                              |   |                             | <u>LINE</u><br>LC=6 |
| LEVEL 5: WATER  |   |                             |                     |
| STREAM, RIVER, OR CREEK                               |   | <u>TEXT</u><br>WT=1<br>TX=5 | <u>LINE</u><br>LC=6 |
| LEVEL 5: WATER  |   |                             |                     |
| RIGHT OF WAY MARKER                                   |    | <u>CELL</u><br>C00172       |                     |
| LEVEL 6: BOUNDARIES                                   |   |                             |                     |
| CANOPY  |  | <u>TEXT</u><br>WT=1         |                     |
| LEVEL 8: CULTURE                                      |   |                             |                     |
| CEMETERY  |  |                             | <u>LINE</u><br>LC=3 |
| LEVEL 8: CULTURE                                      |   |                             |                     |
| COMMERCIAL TANK (PERMANENT)                           |  |                             |                     |
| LEVEL 8: CULTURE                                      |   |                             |                     |
| CONCRETE SURFACE (SLAB, PATIO, MOBILE HOME PAD, ETC.) |  |                             | <u>LINE</u><br>LC=3 |
| LEVEL 8: CULTURE                                      |   |                             |                     |
| CONVEYOR BELT   |  |                             |                     |
| LEVEL 8: CULTURE                                      |   |                             |                     |








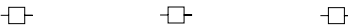
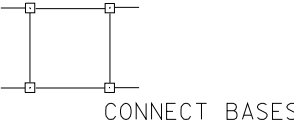
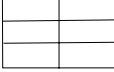
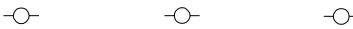

## EXHIBIT B-3

|   |  |                       |                     |
|---|--|-----------------------|---------------------|
| FENCE (ALL TYPES)                                   |    | <u>LS</u><br>e0493    |                     |
| LEVEL 8: CULTURE                                    |  |                       |                     |
| FIELD LINE (APPARENT)                               |   | <u>CELL</u><br>C00233 | <u>LINE</u><br>LC=4 |
| LEVEL 8: CULTURE                                    |  |                       |                     |
| FOOTBRIDGE  |   |                       |                     |
| LEVEL 8: CULTURE                                    |  |                       |                     |
| FOUNDATIONS   |   |                       | <u>LINE</u><br>LC=3 |
| LEVEL 8: CULTURE                                    |  |                       |                     |
| GOLF GREEN<br>(LABEL IS A CELL)<br>LEVEL 8: CULTURE |    | <u>CELL</u><br>C00237 |                     |
| HOUSE OR STRUCTURE                                  |  <div>C = COMMERCIAL<br/>HSE = HOUSE<br/>G = GARAGE<br/>S = SHED<br/>B = BARN<br/>MBH = MOBILE HOME</div> | <u>TEXT</u><br>WT=1   |                     |
| LEVEL 8: CULTURE                                    |  |                       |                     |
| LEVEE   |   | <u>CELL</u><br>C00111 |                     |
| LEVEL 8: CULTURE                                    |  |                       |                     |
| LOCATED OBJECT OR LANDMARK                          |   | <u>CELL</u><br>C00239 |                     |
| LEVEL 8: CULTURE                                    | LABEL IF KNOWN   |                       |                     |
| MAILBOX   |   | <u>CELL</u><br>C00112 |                     |
| LEVEL 8: CULTURE                                    |  |                       |                     |
| MINING AREA   |   |                       | <u>LINE</u><br>LC=3 |
| LEVEL 8: CULTURE                                    |  |                       |                     |




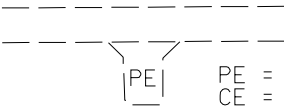

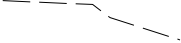
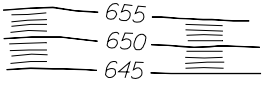
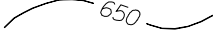
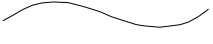
## EXHIBIT B-4

|   |  |                       |
|---|--|-----------------------|
| RACETRACK<br><br>LEVEL 8: CULTURE   |  RACETRACK          |                       |
| SAND TRAP<br><br>(LABEL IS A CELL)<br>LEVEL 8: CULTURE                                |  SAND TRAP          | <u>CELL</u><br>C00238 |
| SIGNS<br>MISCELLANEOUS<br>COMMERCIAL<br><br>LEVEL 8: CULTURE                          |  SIGN<br>BILLBOARD | <u>CELL</u><br>C00125 |
| SWIMMING POOL<br><br>(LABEL IS A CELL)<br>LEVEL 8: CULTURE                            |  POOL               | <u>CELL</u><br>C00234 |
| WALL, MASONRY, STONE<br>(RETAINING WALL)<br><br>LEVEL 8: CULTURE                      |  RET WALL           |                       |
| WELL<br>(OIL, WATER)<br><br>LEVEL 8: CULTURE  |  OIL<br>WELL      | <u>CELL</u><br>C00239 |
| WOODEN DECK<br><br>LEVEL 8: CULTURE   |  R DECK           |                       |
| SECTION CORNER<br>(APPARENT)<br><br>LEVEL 12: BOUNDARIES                              |                   | <u>CELL</u><br>C00132 |
| ABOVE GROUND SPLICE<br>(TEL) (ELEC) ETC.<br><br>LEVEL 14: UTILITIES<br>LEVEL 18: TEXT |  (TEL)            | <u>CELL</u><br>C00488 |
| FIRE HYDRANT<br><br>LEVEL 14: UTILITIES   |                   | <u>CELL</u><br>C00167 |

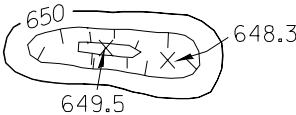
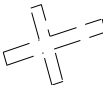
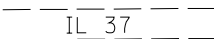



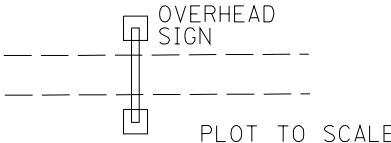


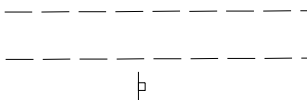
## EXHIBIT B-5

|   |  |                                 |
|---|--|---------------------------------|
| GUY POLE<br>(LABEL IS A CELL)<br>LEVEL 14: UTILITIES<br>LEVEL 18: TEXT  |                       | <u>CELL</u><br>C00244<br>C00257 |
| HANDHOLES<br><br>LEVEL 14: UTILITIES                                    |                       | <u>CELL</u><br><br>C00487       |
| LIGHT STANDARD<br><br>LEVEL 14: UTILITIES                               |                       | <u>CELL</u><br>C00165           |
| MANHOLE<br>(UTILITY)<br><br>LEVEL 14: UTILITIES                         |                       | <u>CELL</u><br>C00168           |
| PIPELINE<br>(ABOVE GROUND)<br><br>LEVEL 14: UTILITIES<br>LEVEL 18: TEXT | <br>PLOT TO SCALE    |                                 |
| POWER LINE<br><br>LEVEL 14: UTILITIES                                   |                    | <u>CELL</u><br>C00119           |
| POWER TRANSMISSION<br>TOWER<br><br>LEVEL 14: UTILITIES                  |                    | <u>CELL</u><br>C00245           |
| SEWAGE DISPOSAL BEDS<br><br>LEVEL 14: UTILITIES<br>LEVEL 18: TEXT       |  SEWAGE<br>DISPOSAL |                                 |
| TELEPHONE OR<br>TELEGRAPH LINE<br><br>LEVEL 14: UTILITIES               |                    | <u>CELL</u><br>C00121           |
| TRAFFIC SIGNAL<br><br>LEVEL 14: UTILITIES                               |                     | <u>CELL</u><br>C00164           |





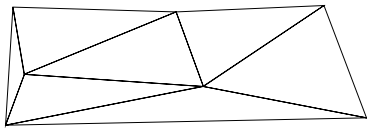
## EXHIBIT B-6

|  |  |   |
|--|--|---|
| <p>TRANSFORMER<br/>BOXES &amp; VAULTS</p> <p>LEVEL 14: UTILITIES<br/>LEVEL 18: TEXT</p>                              | <p>PLOT TO SCALE</p>  <p>LABEL IF ANNOTATED ON PHOTO</p>                    |   |
| <p>UTILITY<br/>METERS &amp; VALVES</p> <p>LEVEL 14: UTILITIES<br/>LEVEL 18: TEXT</p>                                 |  <p>WM=WATER METER<br/>WV=WATER VALVE<br/>GM=GAS METER<br/>GV=GAS VALVE</p> | <p><u>CELL</u><br/>C00357</p>   |
| <p>UTILITY WARNING SIGN<br/>(TEL)(GAS) ETC.</p> <p>LEVEL 14: UTILITIES<br/>LEVEL 18: TEXT</p>                        |   | <p><u>CELL</u><br/>C00356</p>   |
| <p>ENTRANCES</p> <p>LEVEL 16: TEXT<br/>LEVEL 25: MIN PVMT ED</p>   |  <p>PE = PRIVATE<br/>CE = COMMERCIAL<br/>FE = FIELD</p>                     | <p><u>LINE</u><br/>LC=3</p>   |
| <p>SURFACES, SUCH AS<br/>SIDEWALKS, DRIVEWAYS,<br/>PARKING LOTS</p> <p>LEVEL 16: TEXT<br/>LEVEL 25: MIN PVMT ED</p>  |   | <p><u>LINE</u><br/>LC=3</p>   |
| <p>TRAIL</p> <p>LEVEL 25: MINOR PAVT<br/>EDGE</p>  |   | <p><u>LINE</u><br/>LC=3</p>   |
| <p>BROKEN CONTOURS<br/>(BROKEN DUE TO INDEX<br/>CONTOURS BEING 1/4" OR<br/>LESS APART)</p> <p>LEVEL 26: CONTOURS</p> |   |   |
| <p>INDEX CONTOUR</p> <p>LEVEL 26: CONTOURS</p>   |   | <p><u>TEXT</u>    <u>LINE</u><br/>WT=1    WT=3<br/>CO=0<br/>FT=23</p> |
| <p>INTERMEDIATE<br/>CONTOUR</p> <p>LEVEL 26: CONTOURS</p>  |   | <p><u>LINE</u><br/>CO=19</p>  |
|  |  |   |

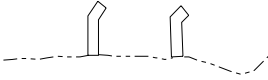
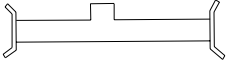
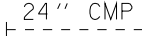

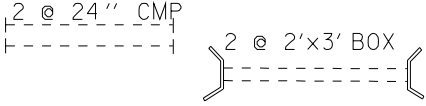
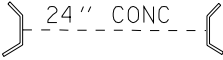
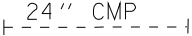


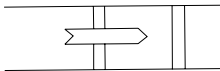
## EXHIBIT B-7

|  |  |   |
|--|--|---|
| SINK OR DEPRESSION<br>WITH TOP INSIDE                  |     | <u>PATTERN</u><br>C00277 INTERMEDIATE<br>C00278 INDEX<br>C00280 DASHED INTM.<br>C00281 DASHED INDEX |
| LEVEL 26: CONTOURS                                     |  |   |
| AIRFIELD   |     | <u>TEXT</u> <u>LINE</u><br>WT=1    LC=3<br>TX=*   |
| LEVEL 16: TEXT<br>LEVEL 27: MAJ PVMT ED                | AIRFIELD   | * TEXT SIZE VARIES  |
| ROADS & ALLEYS   |     | <u>TEXT</u> <u>LINE</u><br>WT=1    LC=3<br>TX=5   |
| LEVEL 16: TEXT<br>LEVEL 27: MAJ PVMT ED                |  |   |
| ROADS WITH CURB<br>& GUTTER                            |     | <u>LINE</u><br>LC=3   |
| LEVEL 27: MAJ PVMT ED<br>LEVEL 28: OTHER PVMT<br>ITEMS | PLOT TO SCALE<br>FROM MENU   |   |
| GUARDPOST  |     | <u>CELL</u><br>C00216   |
| LEVEL 28: OTHER PVMT<br>ITEMS                          |  |   |
| GUARDRAIL  |  | <u>LS</u><br>e0107  |
| LEVEL 28: OTHER PVMT<br>ITEMS                          |  |   |
| OVERHEAD SIGN  |  |   |
| LEVEL 16: TEXT<br>LEVEL 28: OTHER PVMT<br>ITEMS        |  |   |
| ROADS WITH CURBING                                     |   | <u>LINE</u><br>LC=3   |
| LEVEL 16: TEXT<br>LEVEL 28: OTHER PVMT<br>ITEMS        | CONC   |   |
| RUMBLE STRIP   |   | <u>LINE</u><br>LC=3   |
| LEVEL 16: TEXT<br>LEVEL 28: OTHER PVMT<br>ITEMS        |  |   |
| SMALL SINGLE POST<br>TRAFFIC SIGN                      |   | <u>CELL</u><br>C00179   |
| LEVEL 28: OTHER PVMT<br>ITEMS                          |  |   |




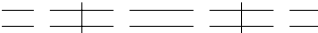


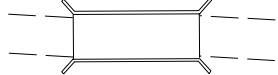

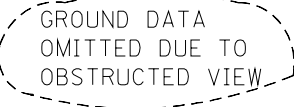
## EXHIBIT B-8

|   |  |                       |
|---|--|-----------------------|
| ANALYTICAL AERIAL<br>TRIANGULATION POINT<br><br>LEVEL 30: CONTROL                   |                                 | <u>CELL</u><br>C00206 |
| HORIZONTAL CONTROL<br>STATION<br>(TARGETED) (FIELD)<br><br>LEVEL 30: CONTROL        |  9301<br>T-541.78               | <u>CELL</u><br>C00202 |
| NGS<br>HORIZONTAL CONTROL<br>STATION<br>(TARGETED) (FIELD)<br><br>LEVEL 30: CONTROL |  NGS<br>GARFIELD<br>ELEV 674.15 | <u>CELL</u><br>C00202 |
| NGS<br>VERTICAL CONTROL<br>STATION<br>(BENCH MARK)<br><br>LEVEL 30: CONTROL         | × NGS<br>BM R-146<br>ELEV 678.67   | <u>CELL</u><br>C00205 |
| PRINCIPAL POINT<br><br><br>LEVEL 30: CONTROL  |  PP-5                          | <u>CELL</u><br>C00207 |
| TEMPORARY<br>BENCH MARK<br><br>LEVEL 30: CONTROL                                    | × TBM-3<br>ELEV 674.10   | <u>CELL</u><br>C00205 |
| USGS<br>VERTICAL CONTROL<br>STATION<br>(BENCH MARK)<br><br>LEVEL 30: CONTROL        | × USGS<br>BM-UE-807-B-1<br>ELEV 436.78   | <u>CELL</u><br>C00205 |
| VERTICAL<br>PICTURE TIE<br>(FIELD)<br><br>LEVEL 30: CONTROL                         | × T-421.30   | <u>CELL</u><br>C00205 |
| DTM MASS POINT<br><br><br>LEVEL 32: POINTS  | ×  | <u>CELL</u><br>C00283 |
| DTM TRIANGLES<br><br><br>LEVEL 36: TRIANGLES  |                              | <u>LINE</u><br>C0=63  |

## EXHIBIT B-9

|  |  |   |
|--|--|---|
| BREAKWATERS<br><br>LEVEL 37: DRAINAGE  |   | <u>LINE</u><br>WT=1   |
| DAM, MASONRY<br><br>LEVEL 37: DRAINAGE   |   | <u>LINE</u><br>WT=1   |
| DISAPPEARING CULVERT<br><br>LEVEL 22: DR. NOTES<br>LEVEL 37: DRAINAGE            | 24" CMP<br>   | <u>CELL</u><br>C00110<br><u>LINE</u><br>LC=5  |
| DITCH CHECK<br><br>LEVEL 37: DRAINAGE  |   | <u>CELL</u><br>C00163   |
| DOUBLE OR MULTIPLE CULVERTS<br><br>LEVEL 22: DR. NOTES<br>LEVEL 37: DRAINAGE     | 2 @ 24" CMP<br><br>2 @ 2'x3' BOX<br>PLOT HEADWALLS TO SCALE | <u>CELL</u><br>C00110<br><u>LINE</u><br>WT=0<br>LC=5<br><u>LINE</u><br>WT=1<br>LC=0 |
| EXISTING CULVERT WITH HEADWALLS<br><br>LEVEL 22: DR. NOTES<br>LEVEL 37: DRAINAGE | 24" CONC<br><br>PLOT HEADWALLS TO SCALE                     | <u>LINE</u><br>WT=1<br>LC=0<br><u>LINE</u><br>WT=0<br>LC=5                          |
| EXISTING CULVERT<br><br>LEVEL 22: DR. NOTES<br>LEVEL 37: DRAINAGE                | 24" CMP<br>   | <u>CELL</u><br>C00110<br><u>LINE</u><br>LC=5  |
| INLET<br><br>LEVEL 22: DR. NOTES<br>LEVEL 37: DRAINAGE                           | <br>ADD TEXT IF NECESSARY<br>TO DISTINGUISH                 | <u>CELL</u><br>C00169   |
| MANHOLE (DRAINAGE)<br><br>LEVEL 37: DRAINAGE                                     |   | <u>CELL</u><br>C00150   |
| PASSABLE LOCKS<br><br>LEVEL 37: DRAINAGE   |   | <u>LINE</u><br>WT=1   |

## EXHIBIT B-10

|   |   |   |
|---|---|---|
| PIERS<br><br>LEVEL 37: DRAINAGE   |                        | $\frac{\text{LINE}}{\text{WT}=1}$   |
| SEAWALL<br><br>LEVEL 37: DRAINAGE   |                       | $\frac{\text{LINE}}{\text{WT}=1}$   |
| SLUICE GATE<br><br>LEVEL 37: DRAINAGE   |                        | $\frac{\text{LINE}}{\text{WT}=1}$   |
| ABANDONED RAILROAD<br>WITH OR WITHOUT<br>RAILS<br><br>LEVEL 38: RAILROAD              |                       | $\frac{\text{LS}}{\text{e0221}}$  |
| RAILROAD<br><br>LEVEL 16: TEXT<br>LEVEL 38: RAILROAD                                  |                       | $\frac{\text{LS}}{\text{e0134}} \quad \frac{\text{TEXT}}{\text{WT}=1}$                                    |
| RAILROAD TUNNEL<br><br>LEVEL 16: TEXT<br>LEVEL 38: RAILROADS                          | <br>RAILROAD TUNNEL | $\frac{\text{LS}}{\text{e0134}} \quad \frac{\text{TEXT}}{\text{WT}=0, \text{TX}=*}$<br>* TEXT SIZE VARIES |
| BRIDGE, ARCH,<br>SUSPENSION,<br>LARGE BOX<br>CULVERT, ETC.<br><br>LEVEL 39: STRUCTURE |                      |   |
| DTM BREAK LINES<br><br>LEVEL 56: BREAK LINES  |                     | $\frac{\text{LINE}}{\text{CO}=14}$  |
| VOIDS<br><br>LEVEL 60:  |                      | $\frac{\text{LINE}}{\text{CO}=2, \text{LS}=2, \text{WT}=2}$<br>COMPLEX SHAPE                              |
|   |   |   |



## CHAPTER 4

# English Photogrammetric Mapping On CADD Systems

### GENERAL

**T**hese guidelines are to be used for the preparation of all large-scale mapping of 1:1200 or larger.

### COMPILATION

Mapping shall be compiled by photogrammetric methods using precision photogrammetric instruments. Unless otherwise stated, mapping standards designed for highway district use are to be used. See Exhibits A & B at the end of this chapter.

### EDITING

Compilation drawings shall be prepared in such a way that maps possess clear symbol definition at the specified scale. These guidelines shall be used for the following items:

|                         |                             |
|-------------------------|-----------------------------|
| Line weights and styles | Text style                  |
| Lettering placement     | Text size                   |
| Symbology               | Treatment of marginal notes |

### MAP CONTENTS

#### Map Coordinates

A coordinate grid system shall be established for all mapping and be shown as follows:

- When hard copies are requested, grid ticks shall be spaced at 5 inch intervals.
- Grid values shall be shown on the mapping manuscripts and shall be placed approximately one inch from the sheet edge.
- The vertical and horizontal data shall be identified on a title sheet.

Whenever ground control surveys are **not** tied to survey monuments of the Illinois Plane Coordinate System, a system of plane coordinates, positive in value, shall be established and numbered so as to avoid any possibility of this arbitrarily established system being mistaken for the existing State system.

Unless otherwise specified, all ground control surveys for the mapping shall be tied to the survey monuments of the existing State Plane Coordinate System to the North American Datum of 1983.

### Planimetry

The maps shall contain all planimetric features, which are visible or identifiable on, or are interpretable from, the aerial photography including land use features such as:

|  |                                  |               |
|--|----------------------------------|---------------|
| buildings  | canals                           | ditches       |
| reservoirs   | trails                           | levees        |
| railroads  | ferry slips                      | quarries      |
| borrow pits  | cemeteries                       | orchards      |
| wooded areas                                       | individual large trees           | culverts      |
| bridges  | trestles                         | tunnels       |
| piers  | retaining walls                  | dams          |
| power plants                                       | storage tanks (oil, water, etc.) | airfields     |
| transportation terminals                           | curb & gutter                    | sidewalks     |
| driveways  | hydrants                         | manholes      |
| telephone lines                                    | telegraph lines                  | paved ditches |
| roads (highways)                                   |                                  |               |
| transformer & other substations                    |                                  |               |
| electric power transmission lines, poles & towers. |                                  |               |

A field survey crew shall annotate features on photos that are not interpretable from the aerial photography. (See Exhibit D).

Buildings and similar dimensioned objects shall be correctly outlined and oriented, and shall be to actual size, except that dimensions smaller than 1/10 inch at map scale shall be symbolized by 1/10 inch in size. Minor irregularities in building outlines not represented by 1/20 inch at map scale shall be ignored.

The principal point of each photograph used in making the maps shall be shown on the maps.

Horizontal control stations used in making the maps shall be shown.

All mapped information shall be shown in accordance with the symbols, style, and line weights shown in Exhibit B.

### Spot Elevations

Digital Terrain Mapping (DTM) does not require spot elevations.

### Contours

Within accuracy requirements, contours shall be drawn to represent true elevation above mean sea level and the exact shape of the ground. Each contour shall be drawn as a solid line. Where the ground data is unreliable or cannot be seen due to heavy brush, tree cover, or other obstructions, it may be outlined with a VOID shape on level 60. The contours will be omitted in that area and the following note of explanation will be added to level 60, "GROUND DATA OMITTED DUE TO OBSTRUCTED VIEW". If you do not have this capability, the contours in such areas may be omitted or shown as dashed lines. The dashed lines shall be plotted as accurately as possible from the stereoscopic model. A note of explanation shall be added to the area.

To establish index contours, every fifth contour shall be accentuated as a heavier line than the intermediate four contours and shall be numbered according to its actual elevation above mean

sea level. Index values shall be placed every 5" at map scale.

#### Names & Labels

Text for control points and stand-alone objects shall be parallel to the main alignment. Labels for retaining walls, paved ditches, billboards, surface types may be parallel to the main alignment or to the object. Names for streets perpendicular to the main alignment should read from the right. Structures will be labeled parallel to the base of the structure.

#### DIGITAL TERRAIN MODEL DATA

The MicroStation 3D file format will be used for all map files that contain DTM data. Lines that represent breaklines will be 3D elements and symbols that represent mass points will be 2D cells. Within accuracy requirements, the vertices of the breaklines and the mass point symbols placed in the design file shall represent true elevation above mean sea level and represent the exact shape of the ground. The mass point grid spacing shall not exceed 30 feet and breaklines shall be developed to provide a true representation of the ground surface.

All DTM files will contain the following:

- standard map features (see MAP CONTENTS)
- mass points on level 32
- breaklines on level 56
- void lines on level 60
- generated contours on level 26
- a boundary polygon on level 56

Deliverables to the Department on digital CD-ROM will consist of:

- 3D file (use extension ". 3d") these files contain all mapping data.
- 2D file (use extension ". pln") these files contain planimetric features only.
- ASCII files (use extension ". asc") these files contain the DTM data in ASCII format.

#### Definitions

Voids are ground areas that cannot be seen by a stereoplotter operator. The cause is usually foliage, but can be structures. Void lines are not required where building "lean" obscures the ground. The "void" line can be made of any number of segments, but must be made into a MicroStation complex shape upon completion. These are used in GEOPAK as "Void" lines during data extraction. Voids can be used where the DTM applications create an incorrect interpretation of the ground. A bridge deck that begins after a cantilevered section of pavement is one instance where a void placed along the cantilevered section and around the deck solves such a problem. Void Lines also have additional specifications of line weight 2, line code 2, color 2 and a complex shape.

Boundary Polygons, sometimes referred to as Sewing Edges, surround each mapped model. They consist of segments of profile that touch on all DTM elements at the mapping limits. When completed, the segments are made into a MicroStation complex element, complex status dropped and used in GEOPAK as a "Boundary" element during data extraction. The purpose of this is to create a self-contained model, where contours stop at the map limits and can be recreated without the need for data from tie models. Boundary Polygons also have additional specifications of line weight 0, line code 2, color 14 and a complex element/dropped.

For further details on DTM, refer to the document titled “Standards for the Collection of Digital Terrain Model (DTM) Data”.

#### DISPOSITION DIAGRAM

A disposition diagram shall be prepared for each project to show the position and relationship of all mapping sheets and/or models to each other. The diagram shall include the following:

- coordinate system used to control the project
- proper positioning of horizontal ground control
- sheet layout and the delineation of the mapping model
- principal points and photo number of each photograph
- north arrow cell (c00294)
- model/file names
- sketch of roadway
- mapping limits
- date prepared
- initials of preparer
- scale of photography
- scale of diagram
- building classification cell (c00309)
- legend of symbols cell (c00391)
- disclaimer note cell (c00312)
- grid factor note with horizontal and vertical notes cell (c00301 for NAD 83 or c00293 for NAD 27)
- arbitrary grid note cell (c00322)
- title block cell (c00290)

A title block is to be included which shall consist of the following:

- scale of the mapping
- contour interval
- project numbers (Aerial Surveys & District)
- date of photography
- county(s) wherein the project lies
- brief geographical description of the location of the project

#### TITLE SHEET

A title sheet shall be prepared for each photogrammetric project. The sheet shall include:

- north arrow cell (c00294)
- grid factor note with horizontal and vertical notes cell (c00301 for NAD 83 or c00293 for NAD 27)
- graphical relationship of mapping sheets to each other and/or stereo models to each other
- listing of mapping sheets with corresponding alpha-numeric CADD Design File identification for each stereoscopic model
- sketch of centerline and major crossroads

PAGE \_\_\_\_\_  
AT COLONY  
INVESTIGATION  
\_\_\_\_\_

MAP SCALE 1:100,000 \_\_\_\_\_ CONTOUR INTERVAL 10 M.

TITLE SHEET

COPYING OF PHOTOGRAPHIC RECORD FROM Aerial PHOTOGRAPHY FLIGHT 8-64

E-92-095-84 D-1622

THIS MAP MEETS THE ACCURACY FOR MAPPING SPECIFICATIONS AS Laid DOWN BY THE FEDERAL HIGHWAY ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION. MAP USERS ARE ADVISED THAT SHOULD YOU HAVE THIS MAP ENLARGED, THEN ANY MEASUREMENTS TAKEN FROM THE ENLARGEMENT ARE ONLY ACCURATE TO THE ORIGINAL COMPILED SCALE.

- legend of symbols cell (c00391)
- building classification cell (c00309)
- title block cell (c00290)
- project number (Aerial Surveys)
- statement about the compilation method
- disclaimer note cell (c00312)

See Exhibit C for example of legend, title block, and building classifications.

#### FINISHED MAPS

##### Digital Format

All digital files containing map data will be delivered on storage media as required in the Computer Aided Drafting Electronic Data Transfer Standards. The files with the following extensions will be on this media: .3d, .pln, and .asc. [See page 51](#). A file with the layout of the models will be included. All photo enlargements containing identified cultural data, a control sketch and adjusted ground control data shall be included in a hard copy format.

##### Hard Copy Format

When a hard copy of the mapping is required, it shall be prepared on a double matte polyester film base of 0.004 inch thickness with a maximum width of 42 inches and a maximum length of 56 inches. All map details shall be plotted in a reverse reading format (data plotted on back side of polyester film). Each polyester film sheet shall be numbered in sequence and contain a north arrow and a title block. Labels were indicating sheet matches shall be included. A hard copy of a title sheet shall be included.

#### DIGITAL ORTHOPHOTO MAP PREPARATION

Orthophoto maps shall be prepared by using rectified digital imagery of the aerial photography. The digital imagery shall be coordinated with the same coordinate system used for the line mapping. All files of the digital orthophotos shall be compatible with the IDOT's MicroStation CADD system to allow the DTM files and generated contour files to be directly merged with the digital imagery to produce an orthophoto map.

Features such as road names, cities, rivers, creeks and streams are to be labeled.

A selection of contour colors shall be one that will have the most contrast with the predominant tone of the orthophoto when making hard copies. Hard copies shall be plotted on a stable polyester film with a minimum thickness of 0.004 inches.

The final orthophoto map shall not contain any mismatched imagery that interfere with the interpretability of ground features or that are esthetically objectionable. Mismatches exceeding 0.04 inch are generally unacceptable and may be cause for rejection. Other defects that could cause rejection include out-of-focus imagery and inconsistencies in tone and density between individual orthophotos and/or adjacent map sheets.

#### DIGITAL ORTHOPHOTO PREPARATION

Digital orthophotos shall be prepared according to the IDOT document entitled "ILLINOIS DEPARTMENT OF TRANSPORTATION - SPECIFICATIONS FOR DIGITAL IMAGERY PRODUCTS."

#### TITLE BLOCKS

Each orthophoto map sheet shall contain the following title information:

- scale of mapping & contour interval
- project numbers (Aerial Surveys & District)
- sheet number
- project county(s)
- brief geographical description of project location
- compilation method
- photography date
- preparing agency
- North Arrow

See Exhibit C.

#### ACCURACY

All dimensions and measurements are applicable as specified by National Mapping Standards (NMS) in "Specifications for Aerial surveys and Mapping by Photogrammetric Methods for Highways," U. S. Department of Transportation, Federal Highway Administration, (rev.1986). The following sections restate their specifications.

##### Horizontal

Ninety (90) percent of all planimetric features shall be shown on the finished map, accurate to within 1/40<sup>th</sup> of an inch of their true coordinate position, as stated in NMS. None of the planimetric features shown shall vary more than 1/20<sup>th</sup> of an inch, from their true coordinate position, at map scale. Horizontal Control points on the map shall be plotted to an accuracy of 0.01 inches of their true horizontal coordinate position.

Coordinate Grid Lines or Tics on the map shall be plotted to an accuracy of 0.01 inches of their true horizontal coordinate position.

##### Vertical

Break lines and mass points in Digital Terrain Models (DTM's) shall be accurate to the extent that contours generated from their use will meet the vertical accuracy stated below.

Ninety (90) percent of contours appearing on a map, whether by conventional photogrammetric mapping or use of DEM / DTM's, shall be accurate within one-half (1/2) of the final map's contour interval, regarding vertical. Of the remaining ten (10) percent, none shall be in error by more than one (1) contour interval on the final map. Where conditions prevent attainment of this standard, use of a VOID shape (as defined for use in GEOPAK), or dashed contours, is recommended.

##### Checks of Map Accuracy

Any post-mapping checks will consist of closed traverses, using the original basic control survey markers from which to proceed. Survey accuracy will conform to that of the basic control.

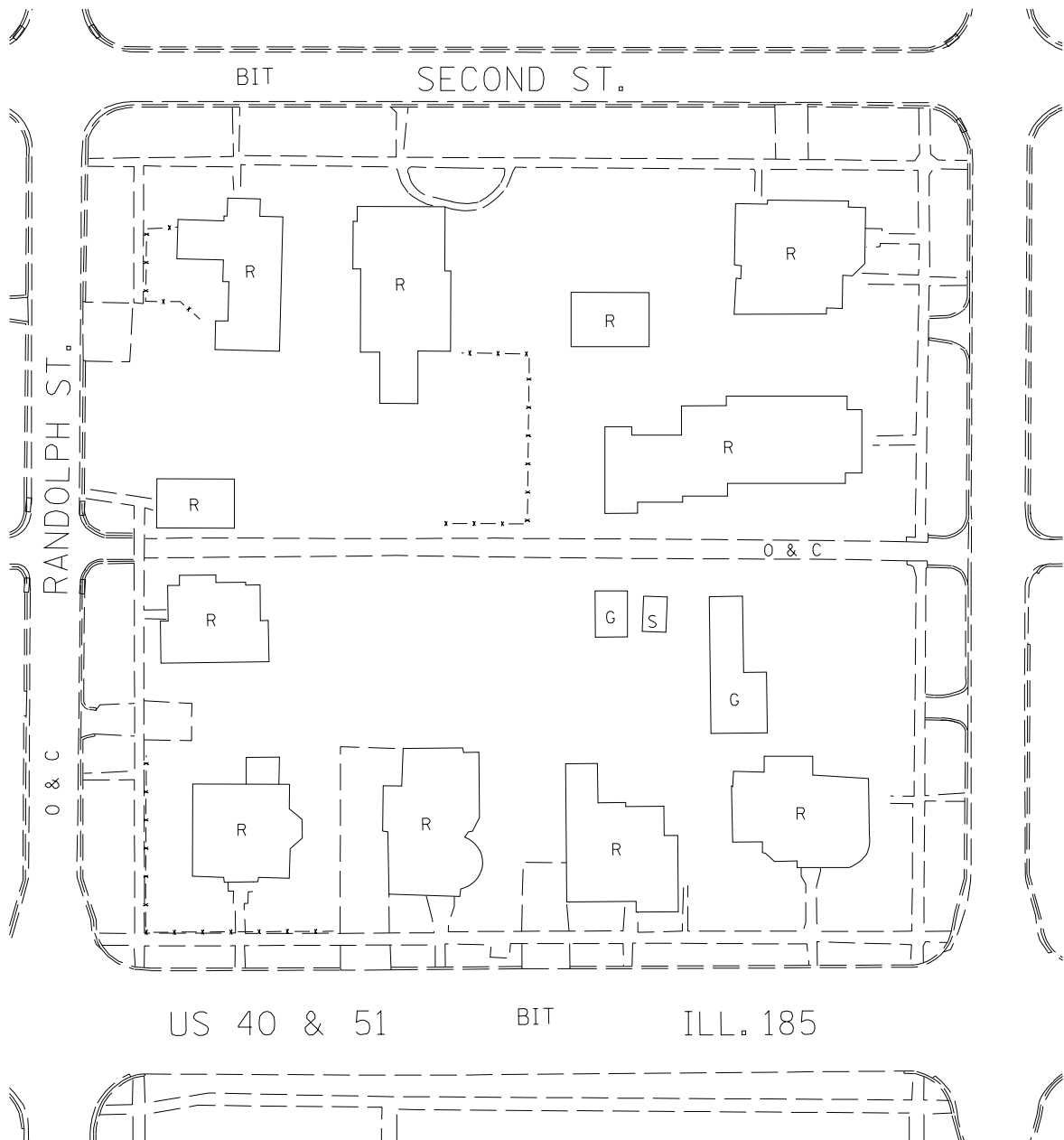
## EXHIBIT A.

### GUIDELINES FOR USING DISTRICT STANDARDS GENERAL INFORMATION FOR PLOTTERS AND EDITORS

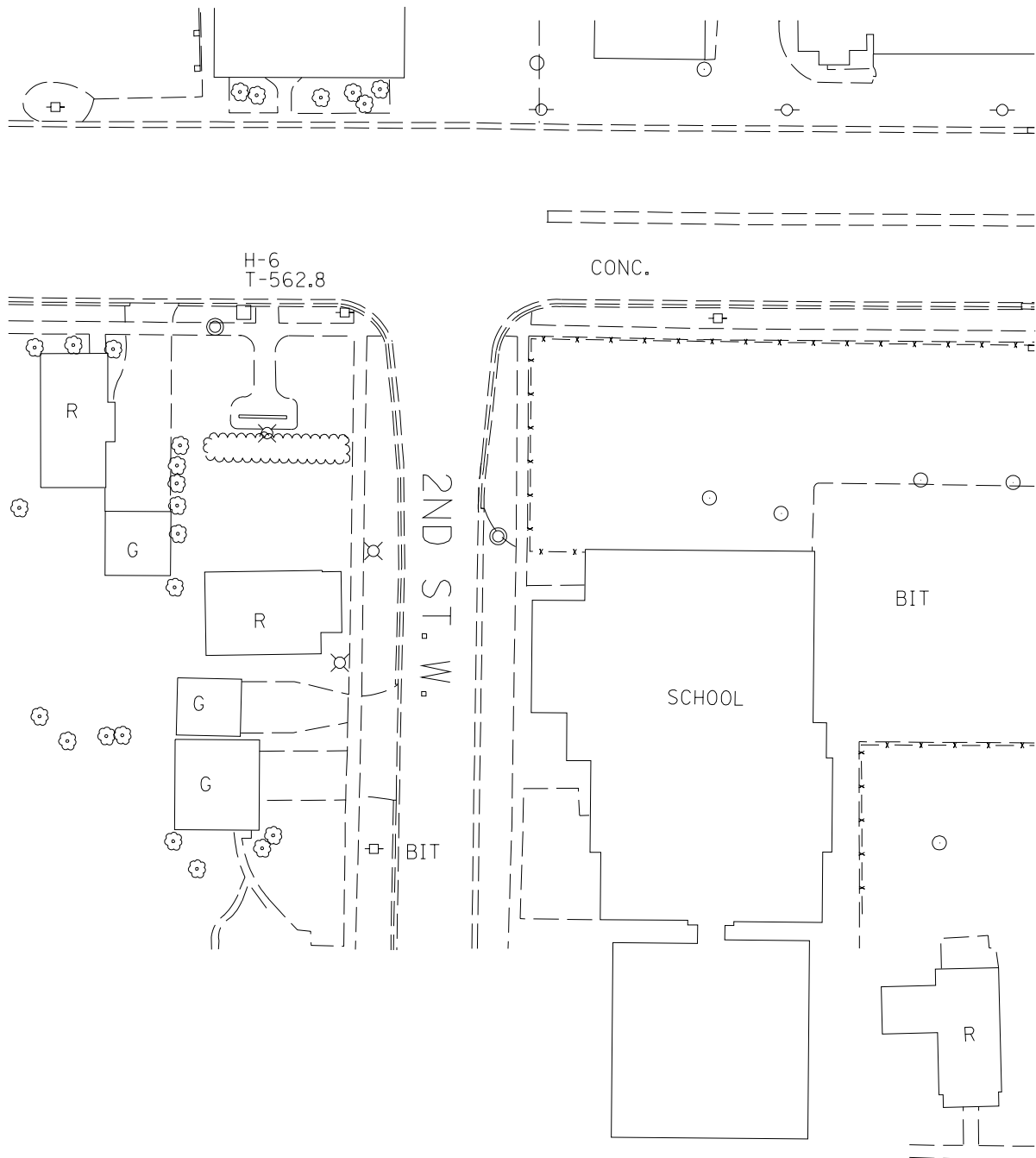
- I. OPENINGS and CLOSURES: ([see examples on page 58](#))
  - A. ALL PUBLIC roads open to each other regardless of surface type
    - 1. side streets
    - 2. alleys
    - 3. frontage roads
  - B. ALL PRIVATE and COMMERCIAL entrances closed at public roads regardless of surface type
    - 1. driveways
    - 2. parking lots (public and private)
    - 3. field entrances
- II. CURBS and GUTTERS: ([see examples on page 59](#))
  - A. Show gutter edge only when well defined and/or dimensioned, otherwise, show two parallel lines one (1) foot apart or to scale if applicable
    - 1. back line represents back of curb (level 28)
    - 2. front line represents face of curb (level 28)
    - 3. gutter line represents edge of pavement (level 27)
  - B. Where applicable, carry gutter lines across all openings
    - 1. back line represents face of curb continuation (level 28)
    - 2. front line represents edge of pavement (level 27)
- III. SIDEWALKS, ALLEYS and ENTRANCES: ([see examples on page 60](#))
  - A. Do not break the principal edge
    - 1. if the entrance goes through the sidewalk - break sidewalk
    - 2. if the sidewalk goes through the entrance - break entrance
    - 3. if the alley goes through the sidewalk - break sidewalk
    - 4. if the sidewalk goes through the alley - break alley
  - B. Show alley edges when they can be seen or located by a dimension. Alleys are to be labeled only under the following conditions:
    - 1. if alley is dimensioned but cannot be located - label as alley along with the dimension (example: 12' ALLEY)
    - 2. if edges cannot be interpreted and no dimensions given - label as alley (example: ALLEY)



- IV. PAVEMENTS and SHOULDERS: ([see examples on page 61](#))
  - A. Do not show unpaved shoulders
  - B. Show paved shoulders only when well defined and/or dimensioned
    - 1. if dimensioned and cannot be seen - show out to out
  - C. Show all entrance edges as seen and extend to hard surface
    - 1. if shoulder is paved - stop at shoulder
    - 2. if shoulder is not paved - stop at pavement edge
    - 3. if radii are visible - show them
    - 4. if radii are not visible - use straight lines
- V. SURFACE TYPES (other than roads, alleys, etc.): ([see page 62](#))
  - A. Identified surface types
    - 1. plot and label
    - 2. show line of delineation if visible
  - B. Unidentified surfaces with visible surface type changes
    - 1. plot
    - 2. do not label
- VI. ANNOTATIONS:
  - A. Label all identified objects
    - 1. if an object can be identified - label it (sign, billboard, etc.)
    - 2. if object mislabeled on photo - correct and note on photo
    - 3. do not label symbolized objects (trees, power & telephone poles, etc.)
  - B. Text for plan features
    - 1. place in open area if possible
    - 2. do not break contours for text
  - C. Text other than plan features
    - 1. plotter will break as before
    - 2. editor will not break or move if text is legible

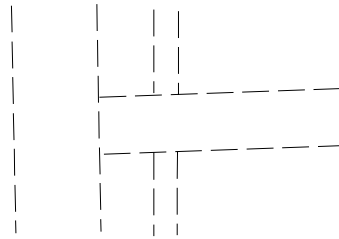


## EXAMPLES OF OPENINGS AND CLOSURES

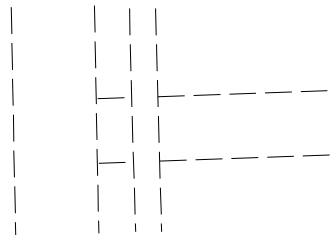


## EXAMPLE OF CURBS & GUTTERS

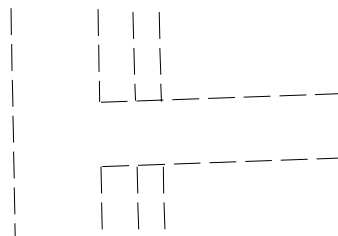
DRIVE AND SIDEWALK



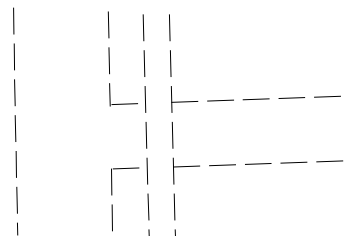
DRIVE AND SIDEWALK



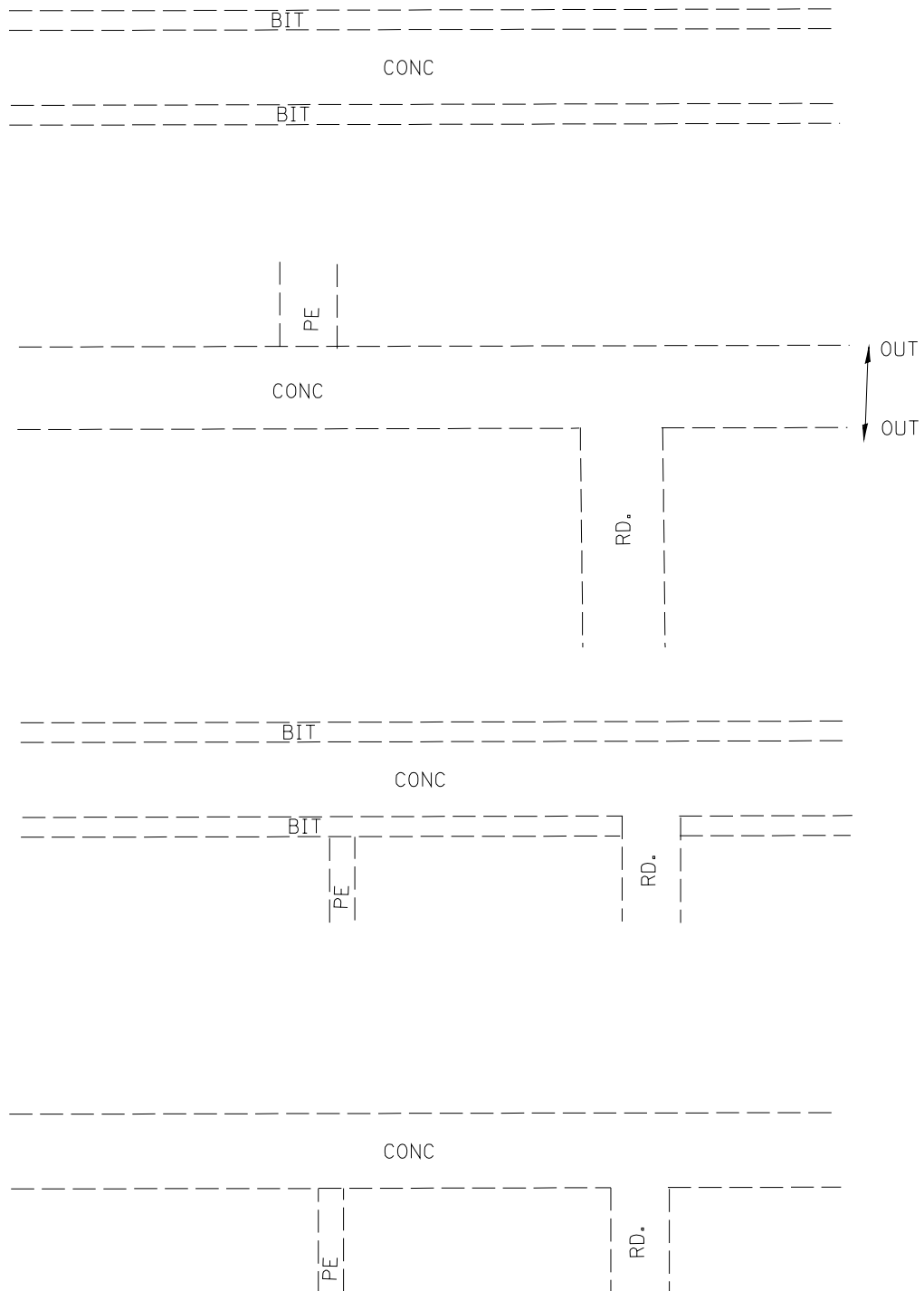
ALLEY AND SIDEWALK



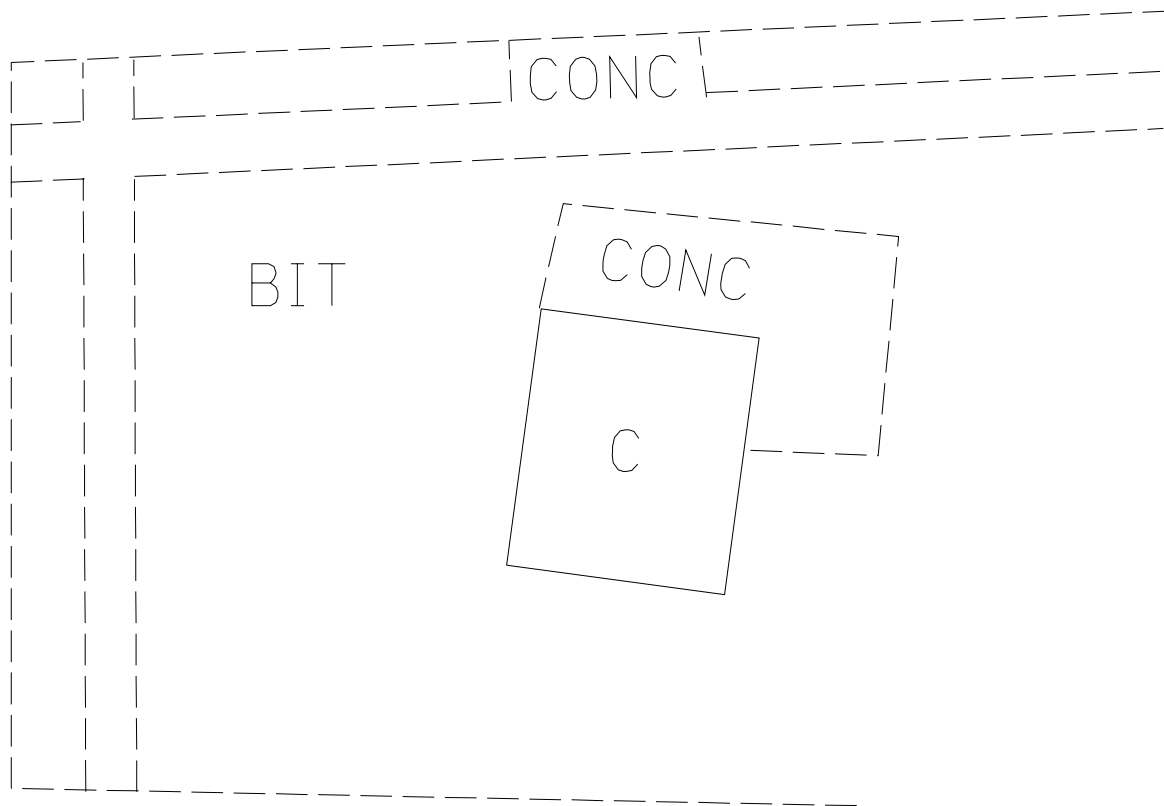
ALLEY AND SIDEWALK



## EXAMPLES OF SIDEWALKS, ALLEYS AND ENTRANCES








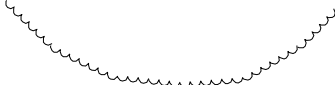





## EXAMPLES OF PAVEMENT AND SHOULDERS

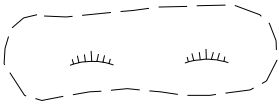

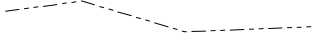


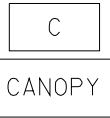

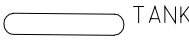




## SURFACE TYPES (OTHER THAN ROADS AND ALLEYS)

## EXHIBIT B-1

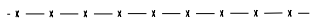
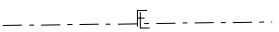
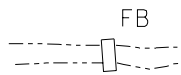



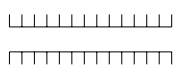



|  |   |  |
|--|---|--|
| HEDGE<br><br>LEVEL 4: VEGETATION   | <br>HEDGE  | <u>LS</u><br>e0265                                   |
| ORCHARD OR NURSERY<br><br>LEVEL 4: VEGETATION                                |  OR <br>PLOT TRUE POSITION OR OUTLINE AND ADD TEXT | <u>CELL</u><br>C00170 OR <u>LINE</u><br>WT=2<br>LC=4 |
| SCRUB AND VEGETATION OUTLINE<br><br>(LABEL IS A CELL)<br>LEVEL 4: VEGETATION | <br>SCRUB   | <u>LS</u><br>e0265 <u>CELL</u><br>C00264             |
| SHRUB AND BUSHES OUTLINE<br><br>LEVEL 4: VEGETATION                          | <br>BUSHES  | <u>LS</u><br>e0265                                   |
| SINGLE TREE OR BUSH<br><br>LEVEL 4: VEGETATION                               |    | <u>CELL</u><br>C00170                                |
| STUMP<br><br>LEVEL 4: VEGETATION   |    | <u>CELL</u><br>C00263                                |
| WOODS OUTLINE<br><br>LEVEL 4: VEGETATION                                     |   | <u>LS</u><br>e0265                                   |
| DISAPPEARING DITCH<br><br>LEVEL 5: WATER                                     |    | <u>CELL</u><br>C00361 <u>LINE</u><br>LC=6            |
| FLOW ARROW<br><br>LEVEL 5: WATER   | <br>ARROWHEAD SHOULD FORM<br>A DISTINCT POINT  |  |
| INTERMITTENT POND<br><br>LEVEL 5: WATER                                      | <br>INTERMITTENT WATER  | <u>LINE</u><br>LC=6                                  |

## EXHIBIT B-2

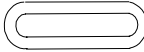





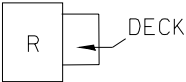
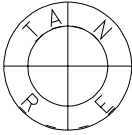


|   |   |                      |              |
|---|---|----------------------|--------------|
| MARSH OR SWAMP<br><br>LEVEL 5: WATER  |   | CELL<br>C00171       | LINE<br>LC=3 |
| SHORELINE OF<br>POND OR LAKE<br><br>LEVEL 5: WATER                                  |    |                      | LINE<br>LC=6 |
| STREAM OR DRAINAGE<br>DITCH<br><br>LEVEL 5: WATER                                   |   |                      | LINE<br>LC=6 |
| STREAM, RIVER, OR<br>CREEK<br><br>LEVEL 5: WATER                                    |   | TEXT<br>WT=1<br>TX=5 | LINE<br>LC=6 |
| RIGHT OF WAY MARKER<br><br>LEVEL 6: BOUNDARIES                                      |    | CELL<br>C00172       |              |
| CANOPY<br><br>LEVEL 8: CULTURE  |  | TEXT<br>WT=1         |              |
| CEMETERY<br><br>LEVEL 8: CULTURE  |  |                      | LINE<br>LC=3 |
| COMMERCIAL TANK<br>(PERMANENT)<br><br>LEVEL 8: CULTURE                              |  |                      |              |
| CONCRETE SURFACE<br>(SLAB, PATIO, MOBILE<br>HOME PAD, ETC.)<br><br>LEVEL 8: CULTURE |  |                      | LINE<br>LC=3 |
| CONVEYOR BELT<br><br>LEVEL 8: CULTURE   |  |                      |              |








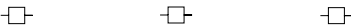
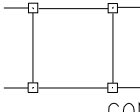
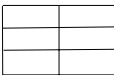
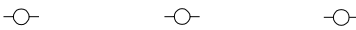

## EXHIBIT B-3

|   |   |   |
|---|---|---|
| FENCE (ALL TYPES)                                   |   | <div>LS</div> <div>e0493</div>                                    |
| LEVEL 8: CULTURE                                    |   |   |
| FIELD LINE (APPARENT)                               |    | <div>CELL</div> <div>C00233</div> <div>LINE</div> <div>LC=4</div> |
| LEVEL 8: CULTURE                                    |   |   |
| FOOTBRIDGE  |    |   |
| LEVEL 8: CULTURE                                    |   |   |
| FOUNDATIONS   |    | <div>LINE</div> <div>LC=3</div>                                   |
| LEVEL 8: CULTURE                                    |   |   |
| GOLF GREEN<br>(LABEL IS A CELL)<br>LEVEL 8: CULTURE |   | <div>CELL</div> <div>C00237</div>                                 |
| HOUSE OR STRUCTURE                                  | <div></div> <div>C =COMMERCIAL<br/>HSE =HOUSE<br/>G =GARAGE<br/>S =SHED<br/>B =BARN<br/>MBH =MOBILE HOME</div> | <div>TEXT</div> <div>WT=1</div>                                   |
| LEVEL 8: CULTURE                                    |   |   |
| LEVEE   |    | <div>CELL</div> <div>C00111</div>                                 |
| LEVEL 8: CULTURE                                    |   |   |
| LOCATED OBJECT OR LANDMARK                          | <br>LABEL IF KNOWN   | <div>CELL</div> <div>C00239</div>                                 |
| LEVEL 8: CULTURE                                    |   |   |
| MAILBOX   |    | <div>CELL</div> <div>C00112</div>                                 |
| LEVEL 8: CULTURE                                    |   |   |
| MINING AREA   |    | <div>LINE</div> <div>LC=3</div>                                   |
| LEVEL 8: CULTURE                                    |   |   |




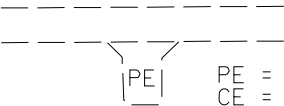

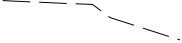
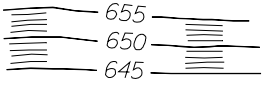
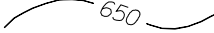
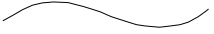
## EXHIBIT B-4

|   |  |                       |
|---|--|-----------------------|
| RACETRACK<br><br>LEVEL 8: CULTURE   |  RACETRACK          |                       |
| SAND TRAP<br><br>(LABEL IS A CELL)<br>LEVEL 8: CULTURE                                |  SAND TRAP          | <u>CELL</u><br>C00238 |
| SIGNS<br>MISCELLANEOUS<br>COMMERCIAL<br><br>LEVEL 8: CULTURE                          |  SIGN<br>BILLBOARD | <u>CELL</u><br>C00125 |
| SWIMMING POOL<br><br>(LABEL IS A CELL)<br>LEVEL 8: CULTURE                            |  POOL               | <u>CELL</u><br>C00234 |
| WALL, MASONRY, STONE<br>(RETAINING WALL)<br><br>LEVEL 8: CULTURE                      |  RET WALL           |                       |
| WELL<br>(OIL, WATER)<br><br>LEVEL 8: CULTURE  |  OIL<br>WELL      | <u>CELL</u><br>C00239 |
| WOODEN DECK<br><br>LEVEL 8: CULTURE   |  R DECK           |                       |
| SECTION CORNER<br>(APPARENT)<br><br>LEVEL 12: BOUNDARIES                              |                   | <u>CELL</u><br>C00132 |
| ABOVE GROUND SPLICE<br>(TEL) (ELEC) ETC.<br><br>LEVEL 14: UTILITIES<br>LEVEL 18: TEXT |  (TEL)            | <u>CELL</u><br>C00488 |
| FIRE HYDRANT<br><br>LEVEL 14: UTILITIES   |                   | <u>CELL</u><br>C00167 |



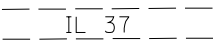
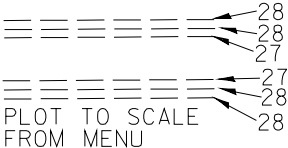


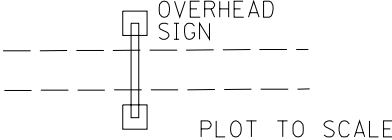


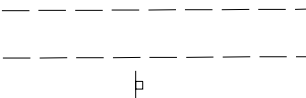
## EXHIBIT B-5

|   |  |                                 |
|---|--|---------------------------------|
| GUY POLE<br>(LABEL IS A CELL)<br>LEVEL 14: UTILITIES<br>LEVEL 18: TEXT  |                       | <u>CELL</u><br>C00244<br>C00257 |
| HANDHOLES<br><br>LEVEL 14: UTILITIES                                    |                       | <u>CELL</u><br><br>C00487       |
| LIGHT STANDARD<br><br>LEVEL 14: UTILITIES                               |                       | <u>CELL</u><br>C00165           |
| MANHOLE<br>(UTILITY)<br><br>LEVEL 14: UTILITIES                         |                       | <u>CELL</u><br>C00168           |
| PIPELINE<br>(ABOVE GROUND)<br><br>LEVEL 14: UTILITIES<br>LEVEL 18: TEXT | <br>PLOT TO SCALE    |                                 |
| POWER LINE<br><br>LEVEL 14: UTILITIES                                   |                    | <u>CELL</u><br>C00119           |
| POWER TRANSMISSION<br>TOWER<br><br>LEVEL 14: UTILITIES                  | <br>CONNECT BASES   | <u>CELL</u><br>C00245           |
| SEWAGE DISPOSAL BEDS<br><br>LEVEL 14: UTILITIES<br>LEVEL 18: TEXT       | <br>SEWAGE DISPOSAL |                                 |
| TELEPHONE OR<br>TELEGRAPH LINE<br><br>LEVEL 14: UTILITIES               |                    | <u>CELL</u><br>C00121           |
| TRAFFIC SIGNAL<br><br>LEVEL 14: UTILITIES                               |                     | <u>CELL</u><br>C00164           |





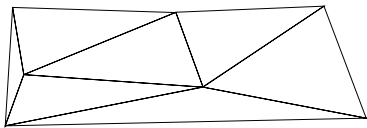
## EXHIBIT B-6

|   |  |  |
|---|--|--|
| TRANSFORMER<br>BOXES & VAULTS<br><br>LEVEL 14: UTILITIES<br>LEVEL 18: TEXT                                | PLOT TO SCALE<br><br><br><br>LABEL IF ANNOTATED ON PHOTO                |  |
| UTILITY<br>METERS & VALVES<br><br>LEVEL 14: UTILITIES<br>LEVEL 18: TEXT                                   |  WM<br>WM=WATER METER<br>WV=WATER VALVE<br>GM=GAS METER<br>GV=GAS VALVE | <u>CELL</u><br>C00357                                    |
| UTILITY WARNING SIGN<br>(TEL)(GAS) ETC.<br><br>LEVEL 14: UTILITIES<br>LEVEL 18: TEXT                      |  (GAS)  | <u>CELL</u><br>C00356                                    |
| ENTRANCES<br><br>LEVEL 16: TEXT<br>LEVEL 25: MIN PVMT ED  |  PE<br>PE = PRIVATE<br>CE = COMMERCIAL<br>FE = FIELD                    | <u>LINE</u><br>LC=3                                      |
| SURFACES, SUCH AS<br>SIDEWALKS, DRIVEWAYS,<br>PARKING LOTS<br><br>LEVEL 16: TEXT<br>LEVEL 25: MIN PVMT ED |  BIT CONC   | <u>LINE</u><br>LC=3                                      |
| TRAIL<br><br>LEVEL 25: MINOR PAVT<br>EDGE   |   | <u>LINE</u><br>LC=3                                      |
| BROKEN CONTOURS<br>(BROKEN DUE TO INDEX<br>CONTOURS BEING 1/4" OR LESS APART)<br>LEVEL 26: CONTOURS       |  655 650 645  |  |
| INDEX CONTOUR<br><br>LEVEL 26: CONTOURS   |  650  | <u>TEXT</u> <u>LINE</u><br>WT=1    WT=3<br>CO=0<br>FT=23 |
| INTERMEDIATE<br>CONTOUR<br><br>LEVEL 26: CONTOURS   |   | <u>LINE</u><br>CO=19                                     |
|   |  |  |

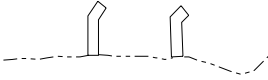
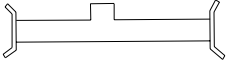
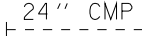

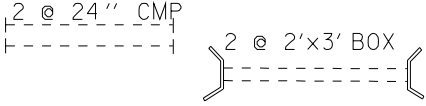
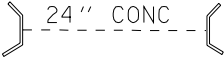
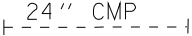


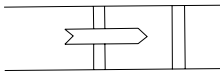
## EXHIBIT B-7

|   |  |   |
|---|--|---|
| SINK OR DEPRESSION<br>WITH TOP INSIDE<br><br>LEVEL 26: CONTOURS                           |          | PATTERN<br>COO277 INTERMEDIATE<br>COO278 INDEX<br>COO280 DASHED INTM.<br>COO281 DASHED INDEX          |
| AIRFIELD<br><br>LEVEL 16: TEXT<br>LEVEL 27: MAJ PVMT ED                                   |  AIRFIELD | <div>TEXT</div> <div>WT=1</div> <div>TX=*</div> <div>LINE</div> <div>LC=3</div><br>* TEXT SIZE VARIES |
| ROADS & ALLEYS<br><br>LEVEL 16: TEXT<br>LEVEL 27: MAJ PVMT ED                             |           | <div>TEXT</div> <div>WT=1</div> <div>TX=5</div> <div>LINE</div> <div>LC=3</div>                       |
| ROADS WITH CURB<br>& GUTTER<br><br>LEVEL 27: MAJ PVMT ED<br>LEVEL 28: OTHER PVMT<br>ITEMS |           | <div>LINE</div> <div>LC=3</div>   |
| GUARDPOST<br><br>LEVEL 28: OTHER PVMT<br>ITEMS  |           | <div>CELL</div> <div>COO216</div>   |
| GUARDRAIL<br><br>LEVEL 28: OTHER PVMT<br>ITEMS  |        | <div>LS</div> <div>e0107</div>  |
| OVERHEAD SIGN<br><br>LEVEL 16: TEXT<br>LEVEL 28: OTHER PVMT<br>ITEMS                      |        |   |
| ROADS WITH CURBING<br><br>LEVEL 16: TEXT<br>LEVEL 28: OTHER PVMT<br>ITEMS                 |         | <div>LINE</div> <div>LC=3</div>   |
| RUMBLE STRIP<br><br>LEVEL 16: TEXT<br>LEVEL 28: OTHER PVMT<br>ITEMS                       |         | <div>LINE</div> <div>LC=3</div>   |
| SMALL SINGLE POST<br>TRAFFIC SIGN<br><br>LEVEL 28: OTHER PVMT<br>ITEMS                    |         | <div>CELL</div> <div>COO179</div>   |




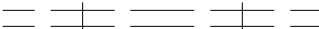


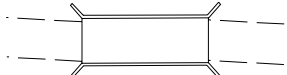
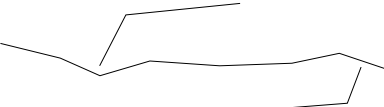
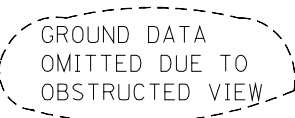
## EXHIBIT B-8

|   |  |                       |
|---|--|-----------------------|
| ANALYTICAL AERIAL<br>TRIANGULATION POINT<br><br>LEVEL 30: CONTROL                   |                                 | <u>CELL</u><br>C00206 |
| HORIZONTAL CONTROL<br>STATION<br>(TARGETED) (FIELD)<br><br>LEVEL 30: CONTROL        |  9301<br>T-541.78               | <u>CELL</u><br>C00202 |
| NGS<br>HORIZONTAL CONTROL<br>STATION<br>(TARGETED) (FIELD)<br><br>LEVEL 30: CONTROL |  NGS<br>GARFIELD<br>ELEV 674.15 | <u>CELL</u><br>C00202 |
| NGS<br>VERTICAL CONTROL<br>STATION<br>(BENCH MARK)<br><br>LEVEL 30: CONTROL         | × NGS<br>BM R-146<br>ELEV 678.67   | <u>CELL</u><br>C00205 |
| PRINCIPAL POINT<br><br><br>LEVEL 30: CONTROL  |  PP-5                          | <u>CELL</u><br>C00207 |
| TEMPORARY<br>BENCH MARK<br><br>LEVEL 30: CONTROL                                    | × TBM-3<br>ELEV 674.10   | <u>CELL</u><br>C00205 |
| USGS<br>VERTICAL CONTROL<br>STATION<br>(BENCH MARK)<br><br>LEVEL 30: CONTROL        | × USGS<br>BM-UE-807-B-1<br>ELEV 436.78   | <u>CELL</u><br>C00205 |
| VERTICAL<br>PICTURE TIE<br>(FIELD)<br><br>LEVEL 30: CONTROL                         | × T-421.30   | <u>CELL</u><br>C00205 |
| DTM MASS POINT<br><br><br>LEVEL 32: POINTS  | ×  | <u>CELL</u><br>C00283 |
| DTM TRIANGLES<br><br><br>LEVEL 36: TRIANGLES  |                              | <u>LINE</u><br>C0=63  |

## EXHIBIT B-9

|  |  |   |
|--|--|---|
| BREAKWATERS<br><br>LEVEL 37: DRAINAGE  |   | <u>LINE</u><br>WT=1   |
| DAM, MASONRY<br><br>LEVEL 37: DRAINAGE   |   | <u>LINE</u><br>WT=1   |
| DISAPPEARING CULVERT<br><br>LEVEL 22: DR. NOTES<br>LEVEL 37: DRAINAGE            | 24" CMP<br>   | <u>CELL</u><br>C00110<br><u>LINE</u><br>LC=5  |
| DITCH CHECK<br><br>LEVEL 37: DRAINAGE  |   | <u>CELL</u><br>C00163   |
| DOUBLE OR MULTIPLE CULVERTS<br><br>LEVEL 22: DR. NOTES<br>LEVEL 37: DRAINAGE     | 2 @ 24" CMP<br><br>2 @ 2'x3' BOX<br>PLOT HEADWALLS TO SCALE | <u>CELL</u><br>C00110<br><u>LINE</u><br>WT=0<br>LC=5<br><u>LINE</u><br>WT=1<br>LC=0 |
| EXISTING CULVERT WITH HEADWALLS<br><br>LEVEL 22: DR. NOTES<br>LEVEL 37: DRAINAGE | 24" CONC<br><br>PLOT HEADWALLS TO SCALE                     | <u>LINE</u><br>WT=1<br>LC=0<br><u>LINE</u><br>WT=0<br>LC=5                          |
| EXISTING CULVERT<br><br>LEVEL 22: DR. NOTES<br>LEVEL 37: DRAINAGE                | 24" CMP<br>   | <u>CELL</u><br>C00110<br><u>LINE</u><br>LC=5  |
| INLET<br><br>LEVEL 22: DR. NOTES<br>LEVEL 37: DRAINAGE                           | <br>ADD TEXT IF NECESSARY<br>TO DISTINGUISH                 | <u>CELL</u><br>C00169   |
| MANHOLE (DRAINAGE)<br><br>LEVEL 37: DRAINAGE                                     |   | <u>CELL</u><br>C00150   |
| PASSABLE LOCKS<br><br>LEVEL 37: DRAINAGE   |   | <u>LINE</u><br>WT=1   |

## EXHIBIT B-10

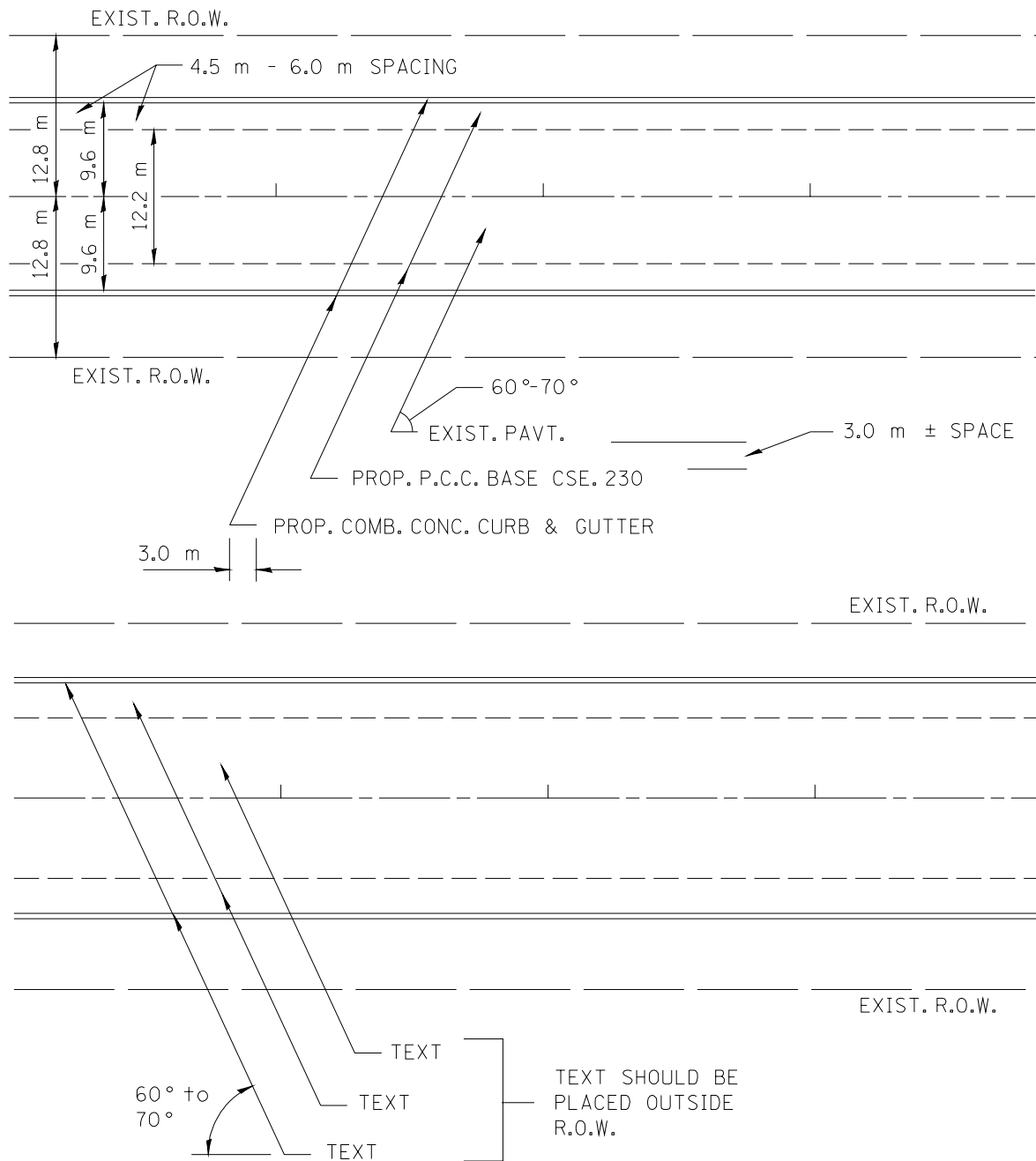
|   |   |  |
|---|---|--|
| PIERS<br><br>LEVEL 37: DRAINAGE   |                        | $\frac{\text{LINE}}{\text{WT}=1}$  |
| SEAWALL<br><br>LEVEL 37: DRAINAGE   |                       | $\frac{\text{LINE}}{\text{WT}=1}$  |
| SLUICE GATE<br><br>LEVEL 37: DRAINAGE   |                        | $\frac{\text{LINE}}{\text{WT}=1}$  |
| ABANDONED RAILROAD<br>WITH OR WITHOUT<br>RAILS<br><br>LEVEL 38: RAILROAD              |                       | $\frac{\text{LS}}{\text{e0221}}$   |
| RAILROAD<br><br>LEVEL 16: TEXT<br>LEVEL 38: RAILROAD                                  |                       | $\frac{\text{LS}}{\text{e0134}} \quad \frac{\text{TEXT}}{\text{WT}=1}$                                       |
| RAILROAD TUNNEL<br><br>LEVEL 16: TEXT<br>LEVEL 38: RAILROADS                          | <br>RAILROAD TUNNEL | $\frac{\text{LS}}{\text{e0134}} \quad \frac{\text{TEXT}}{\text{WT}=0 \text{ TX}=\ast}$<br>* TEXT SIZE VARIES |
| BRIDGE, ARCH,<br>SUSPENSION,<br>LARGE BOX<br>CULVERT, ETC.<br><br>LEVEL 39: STRUCTURE |                      |  |
| DTM BREAK LINES<br><br>LEVEL 56: BREAK LINES  |                     | $\frac{\text{LINE}}{\text{CO}=14}$   |
| VOIDS<br><br>LEVEL 60:  |                      | $\frac{\text{LINE}}{\text{CO}=2} \quad \text{LS}=2 \quad \text{WT}=2$<br>COMPLEX SHAPE                       |
|   |   |  |



## CHAPTER 5

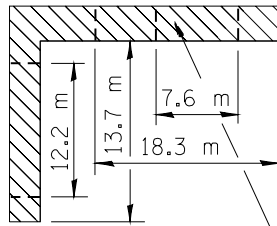
# Metric Suggested Drafting Techniques





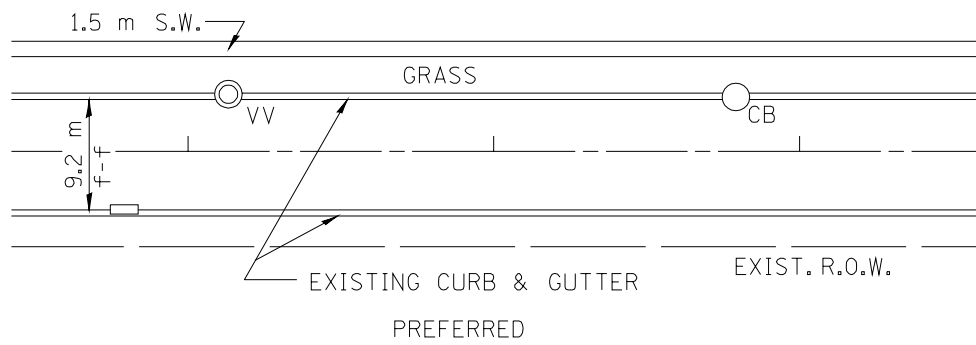
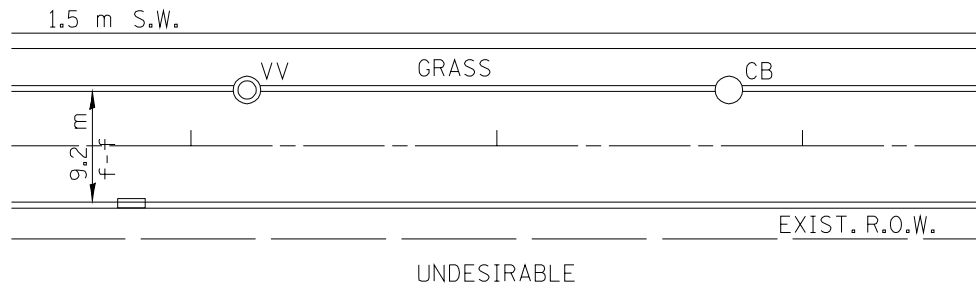
NOTE : AS MUCH AS POSSIBLE "LEADER ARROWS" SHALL BE PLACED PARALLEL TO EACH OTHER.

All dimensions are in millimeters unless otherwise shown.



NOTE : BREAK LEADER ARROW PASSING THRU TEXT AND DIMENSION LINES. NO BREAKS WHEN IT PASSES THRU AN OBJECT.

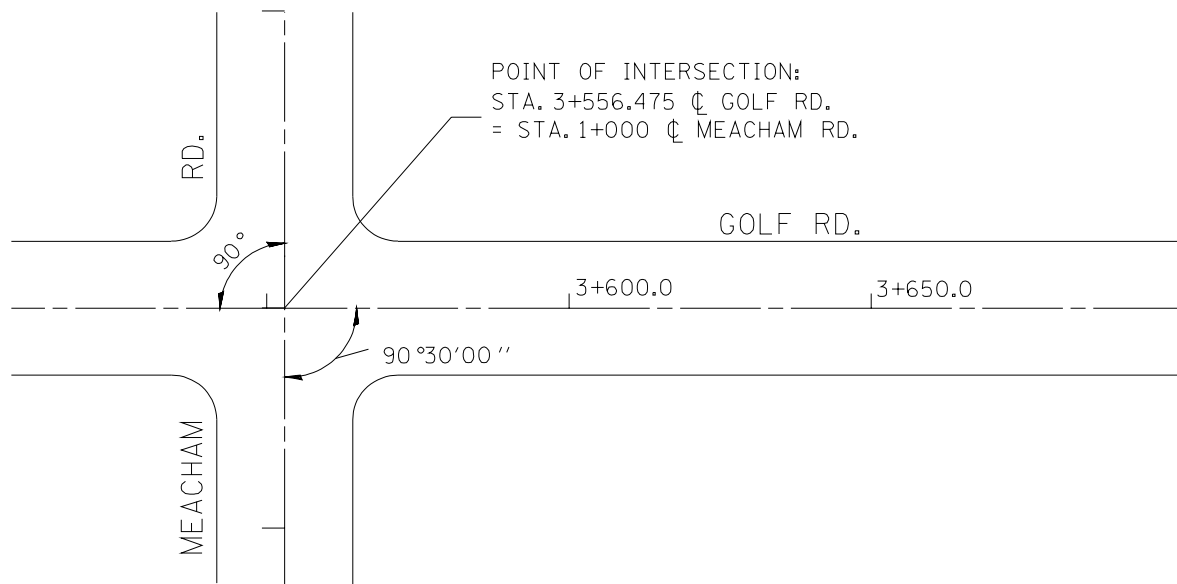
TYPICAL LINE BREAKS WHEN WITNESS LINES DIMENSION LINES, AND LEADER ARROW CROSSES ONE ANOTHER. DON'T BREAK LEADER ARROW WHEN IT PASSES THRU ELEMENTS OR OBJECTS.



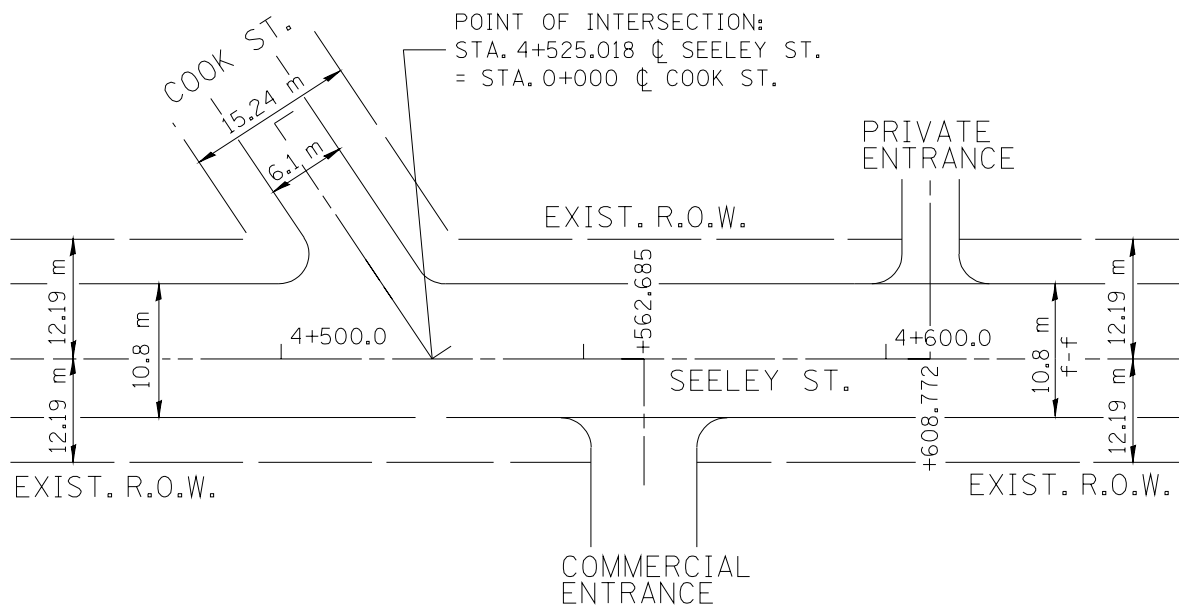
#### TEXT PLACEMENT WITH OBJECTS

NOTE: DO NOT PLACE TEXT ON ELEMENTS OR OBJECTS

All dimensions are in millimeters unless otherwise shown.

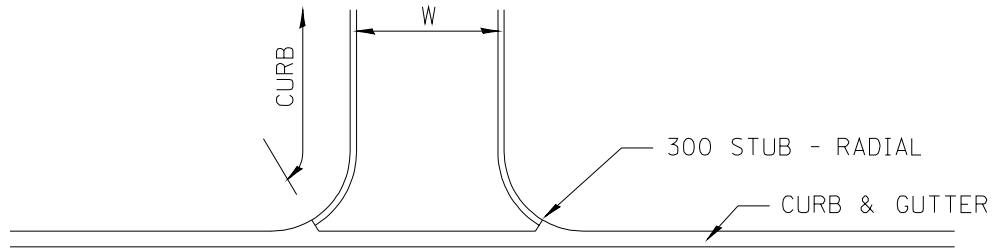


### TEXT WITH MAJOR INTERSECTION OR STREETS



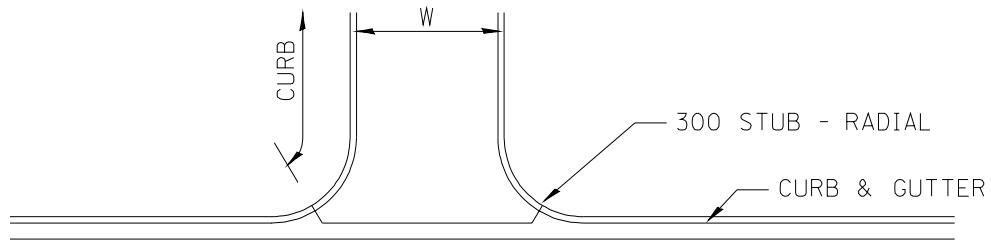
### TEXT WITH SIDE STREETS AND ENTRANCES

All dimensions are in millimeters unless otherwise shown.



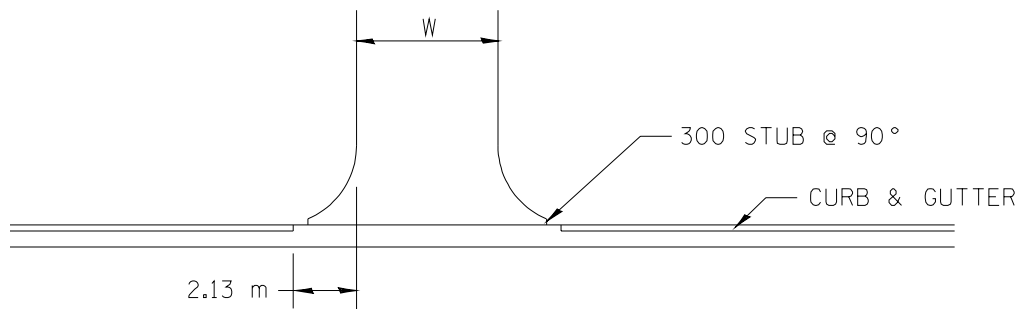
DRIVEWAY DETAILS  
WITH CONCRETE CURB

2 LINES C & G



DRIVEWAY DETAILS  
WITH CONCRETE CURB

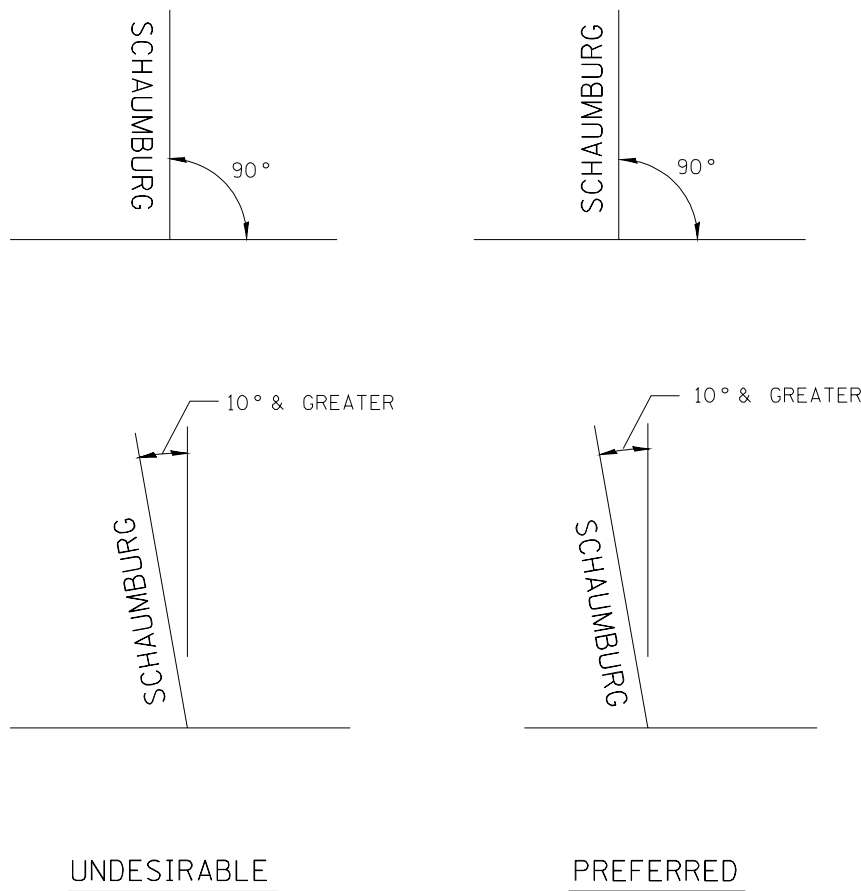
3 LINES C & G



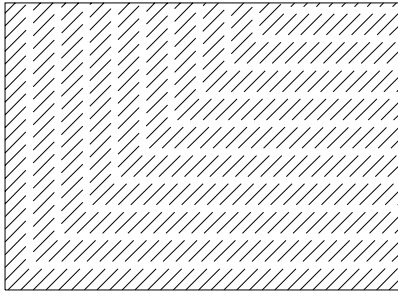
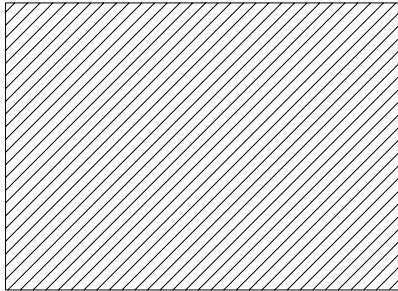
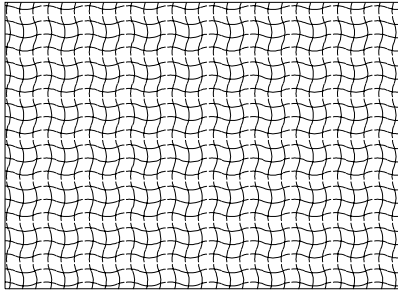
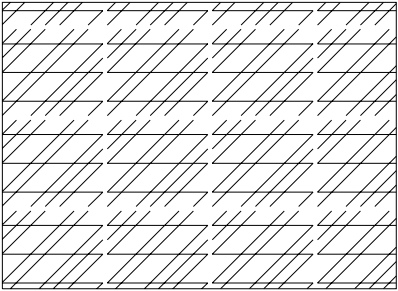
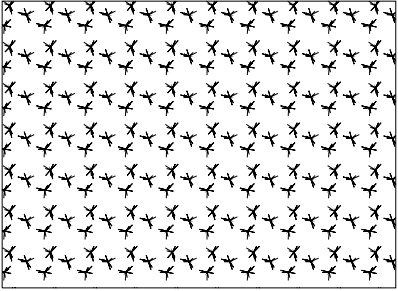
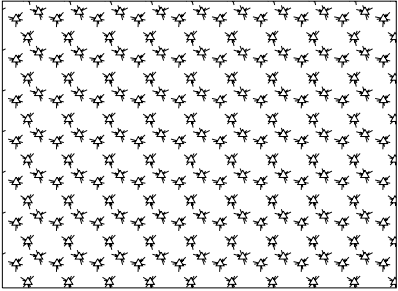
DRIVEWAY DETAILS  
WITHOUT CONCRETE CURB

3 LINES C & G

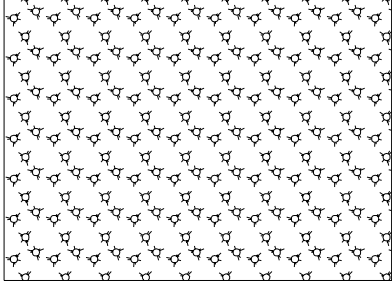
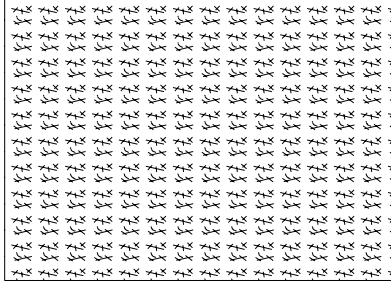
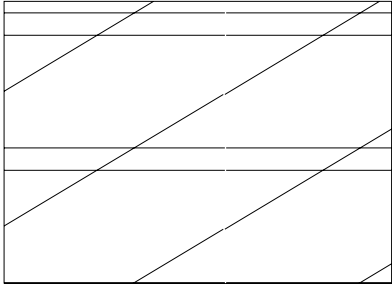
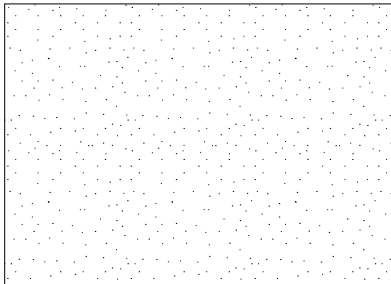
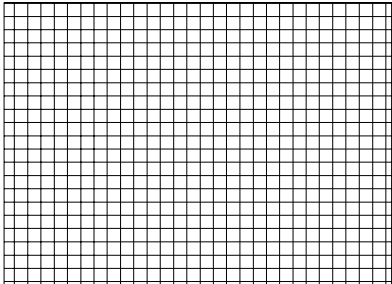
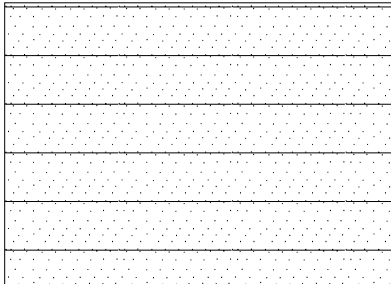
All dimensions are in millimeters  
unless otherwise shown.

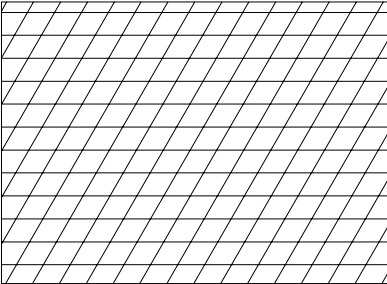
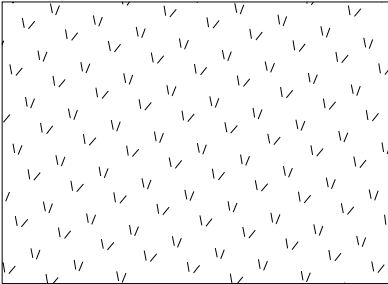
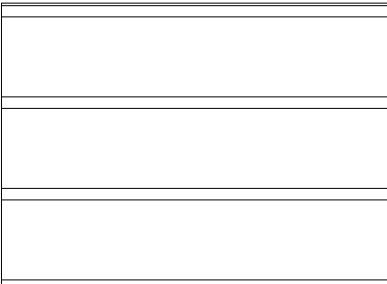
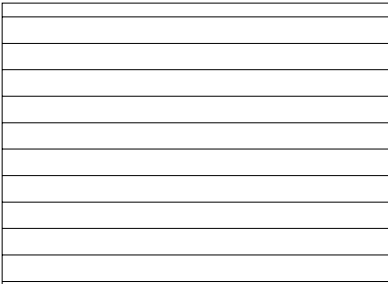
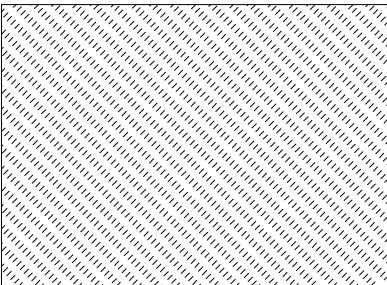
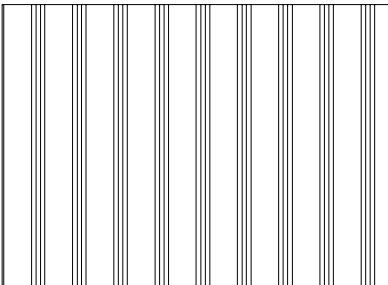


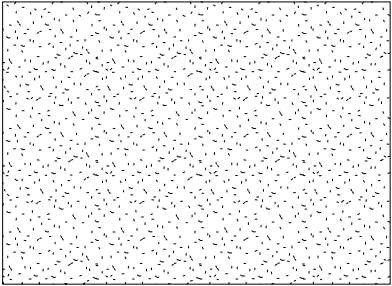
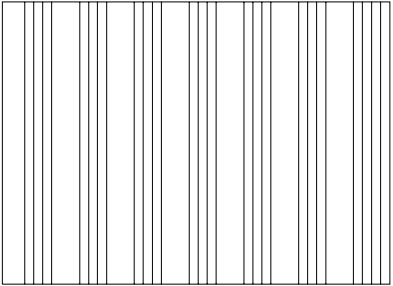
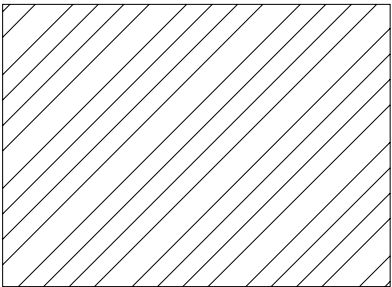
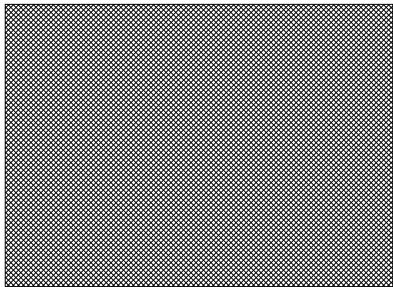
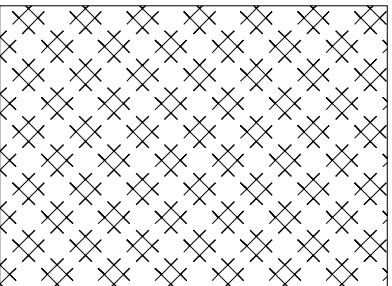
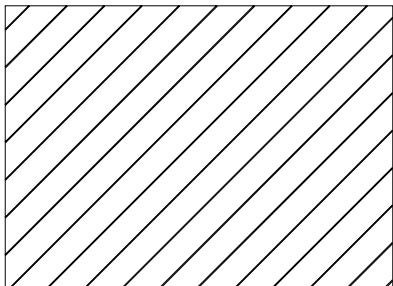
TYPICAL EXAMPLE OF PLACING  
"TEXT" AT AN ANGLE

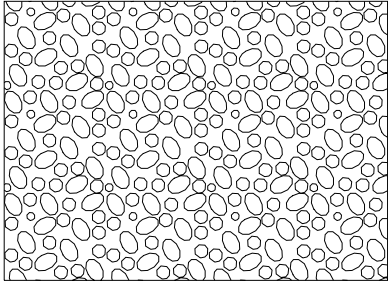
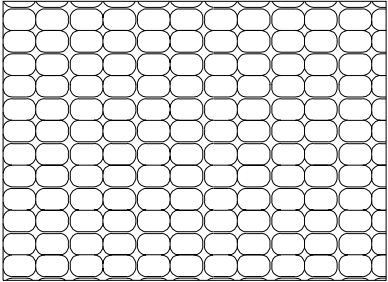
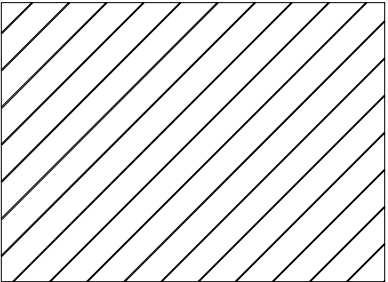
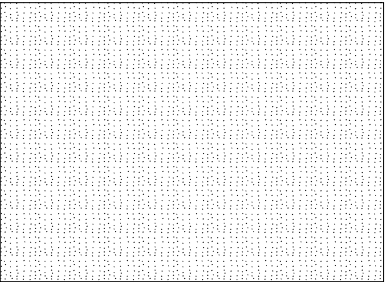
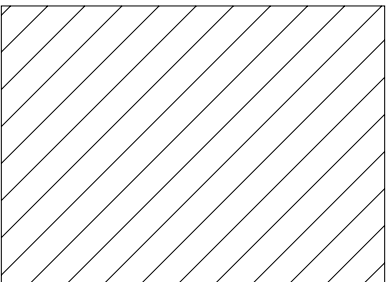
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|--|--|
| <p><b>PAVEMENT MARKING EX</b></p>  <p><b>SHOULDER DIAGONAL PATTERN</b></p> <p>ROW SPACING: 1.0      ANGLE: 45<br/>COLUMN SPACING: N/A      LV: 07</p>                         | <p><b>PAVEMENT MARKING PR</b></p>  <p><b>SHOULDER DIAGONAL PATTERN</b></p> <p>ROW SPACING: 1.0      ANGLE: 45<br/>COLUMN SPACING: N/A      LV: 09</p>                            |
| <p><b>EROSION &amp; SEDIMENT CONTROL</b></p>  <p><b>CELL: C01220 - EROSION CONTROL BLANKET</b></p> <p>ROW SPACING: 0.2      ANGLE: 0<br/>COLUMN SPACING: 0.2      LV: 23</p> | <p><b>EROSION &amp; SEDIMENT CONTROL</b></p>  <p><b>CELL: C01235 - FIBER MAT</b></p> <p>ROW SPACING: 0.5      ANGLE: 0<br/>COLUMN SPACING: 0.5      LV: 23</p>                  |
| <p><b>EROSION &amp; SEDIMENT CONTROL</b></p>  <p><b>CELL: C01286 - MULCH METHOD 1</b></p> <p>ROW SPACING: 0.1      ANGLE: 0<br/>COLUMN SPACING: 0.1      LV: 23</p>         | <p><b>EROSION &amp; SEDIMENT CONTROL</b></p>  <p><b>CELL: C01287 - MULCH METHOD 2 STABILIZED</b></p> <p>ROW SPACING: 0.1      ANGLE: 0<br/>COLUMN SPACING: 0.1      LV: 23</p> |



|  |  |
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| <p><b>EROSION &amp; SEDIMENT CONTROL</b></p>  <p><b>CELL: C01288 - MULCH METHOD 3 HYDRAULIC</b></p> <p>ROW SPACING: 0.1      ANGLE: 0<br/>COLUMN SPACING: 0.1      LV: 23</p> | <p><b>EROSION &amp; SEDIMENT CONTROL</b></p>  <p><b>CELL: C01299 - MULCH TEMPORARY</b></p> <p>ROW SPACING: 0.1      ANGLE: 0<br/>COLUMN SPACING: 0.1      LV: 23</p> |
| <p><b>LANDSCAPING</b></p>  <p><b>CELL: C00764 - PERENNIAL PLANTS</b></p> <p>ROW SPACING: 0      ANGLE: 0<br/>COLUMN SPACING: 0      LV: 23</p>                               | <p><b>LANDSCAPING</b></p>  <p><b>CELL: C00765 - SEEDING CLASS 2</b></p> <p>ROW SPACING: 0      ANGLE: 0<br/>COLUMN SPACING: 0      LV: 23</p>                       |
| <p><b>LANDSCAPING</b></p>  <p><b>SEEDING CLASS 3</b></p> <p>ROW SPACING: 1.5      ANGLES: 0,90<br/>COLUMN SPACING: 1.5      LV: 23</p>                                      | <p><b>LANDSCAPING</b></p>  <p><b>CELL: C00758 - SEEDING CLASS 4</b></p> <p>ROW SPACING: 0      ANGLE: 180<br/>COLUMN SPACING: 0      LV: 23</p>                    |

|  |  |
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| <p><b>LANDSCAPING</b></p>  <p><b>SEEDING CLASS 5</b></p> <p>ROW SPACING: 2.6      ANGES: 0,60<br/>COLUMN SPACING: 2.6      LV: 23</p>             | <p><b>LANDSCAPING</b></p>  <p><b>CELL: C01275 - SEEDING CLASS 7</b></p> <p>ROW SPACING: 0.5      ANGLE: 345<br/>COLUMN SPACING: 0.5      LV: 23</p>      |
| <p><b>LANDSCAPING</b></p>  <p><b>CELL: C00755 - SEEDLINGS TYPE 1</b></p> <p>ROW SPACING: 9.1      ANGLE: 0<br/>COLUMN SPACING: 0      LV: 23</p> | <p><b>LANDSCAPING</b></p>  <p><b>SEEDLINGS TYPE 2</b></p> <p>ROW SPACING: 3      ANGLE: 0<br/>COLUMN SPACING: N/A      LV: 23</p>                       |
| <p><b>LANDSCAPING</b></p>  <p><b>CELL: C00760 - SODDING</b></p> <p>ROW SPACING: 0.6      ANGLE: 45<br/>COLUMN SPACING: 0.3      LV: 23</p>      | <p><b>ROADWAY PLAN EX</b></p>  <p><b>CELL: C00496 - CORRUGATED MEDIAN</b></p> <p>ROW SPACING: 3.1      ANGLE: 90<br/>COLUMN SPACING: 0      LV: 28</p> |

|  |   |
|--|---|
| <p><b>DRAINAGE EX</b></p>  <p><b>CELL: C01262 - RIPRAP</b></p> <p>ROW SPACING: 0      ANGLE: 0<br/>         COLUMN SPACING: 0      LV: 37<br/>         SCALE: 2</p>                                 | <p><b>ROADWAY PLAN PR</b></p>  <p><b>CELL: C00421 - CORRUGATED MEDIAN</b></p> <p>ROW SPACING: 3.1      ANGLE: 90<br/>         COLUMN SPACING: 0      LV: 46</p>                   |
| <p><b>CONSTRUCTION PAVT. DETAILS</b></p>  <p><b>CELL: C00435 - BITUMINOUS SHOULDER</b></p> <p>ROW SPACING: 3.0      ANGLE: 45<br/>         COLUMN SPACING: 0      LV: 49<br/>         SCALE: 2</p> | <p><b>CONSTRUCTION PAVT. DETAILS</b></p>  <p><b>CELL: C00431 - BITUMINOUS TAPER</b></p> <p>ROW SPACING: 0.4      ANGLES: 45,135<br/>         COLUMN SPACING: 0.4      LV: 49</p> |
| <p><b>CONSTRUCTION PAVT. DETAILS</b></p>  <p><b>CELL: C00432 - STABILIZED DRIVEWAY</b></p> <p>ROW SPACING: 1.0      ANGLE: 45<br/>         COLUMN SPACING: 1.0      LV: 49</p>                    | <p><b>CONSTRUCTION PAVT. DETAILS</b></p>  <p><b>CELL: C00436 - WIDENING</b></p> <p>ROW SPACING: 3.0      ANGLE: 45<br/>         COLUMN SPACING: N/A      LV: 49</p>             |

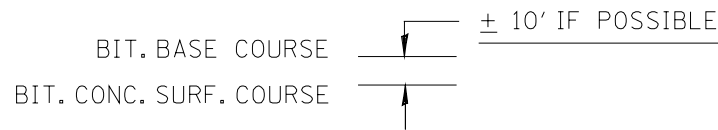
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|---|---|
| <p><b>DRAINAGE PR</b></p>  <p>CELL: C01260 - RIPRAP</p> <p>ROW SPACING: 0      ANGLE: 0<br/> COLUMN SPACING: 0      LV: 52<br/> SCALE: 2</p>                       | <p><b>EROSION &amp; SEDIMENT CONTROL</b></p>  <p>CELL: C01225 - FABRIC FORMED CONC. REVET. MAT</p> <p>ROW SPACING: 0.2      ANGLE: 0<br/> COLUMN SPACING: 0.2      LV: 52</p> |
| <p><b>ADJUSTMENT ITEMS</b></p>  <p>CELL: C00459 - PAVEMENT REMOVAL &amp; REPLACE.</p> <p>ROW SPACING: 3.0      ANGLE: 45<br/> COLUMN SPACING: N/A      LV: 53</p> | <p><b>REMOVAL ITEMS</b></p>  <p>CELL: C00780 - BITUMINOUS REMOVAL</p> <p>ROW SPACING: 0      ANGLE: 180<br/> COLUMN SPACING: 0      LV: 54</p>                               |
| <p><b>REMOVAL ITEMS</b></p>  <p>CELL: C00480 - HATCH</p> <p>ROW SPACING: 3.0      ANGLE: 45<br/> COLUMN SPACING: N/A      LV: 54</p>                             |   |

## CHAPTER 5

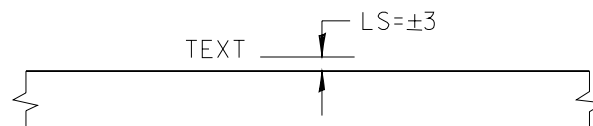
# English Suggested Drafting Techniques

## SUGGESTED TEXT PLACEMENT AND DRAFTING TECHNIQUES

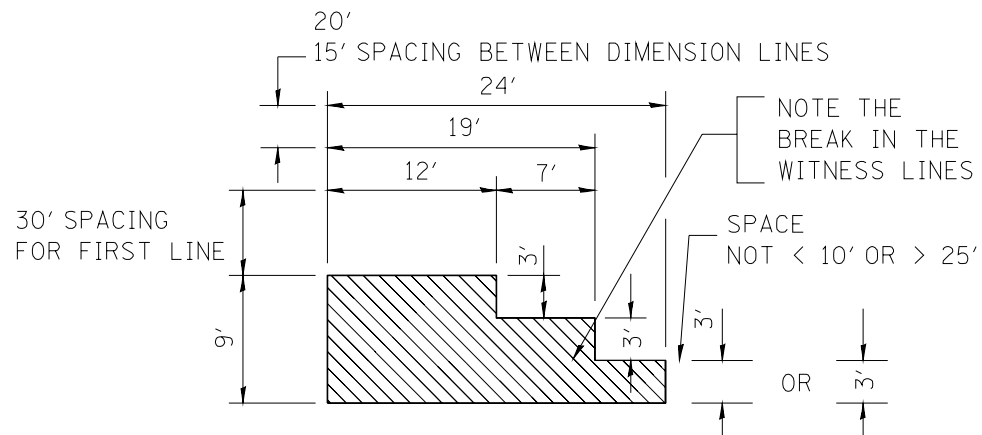
DIMENSIONS ARE BASED ON 50 SCALE DRAWING



### I. LS=SPACING BETWEEN LINES OF TEXT

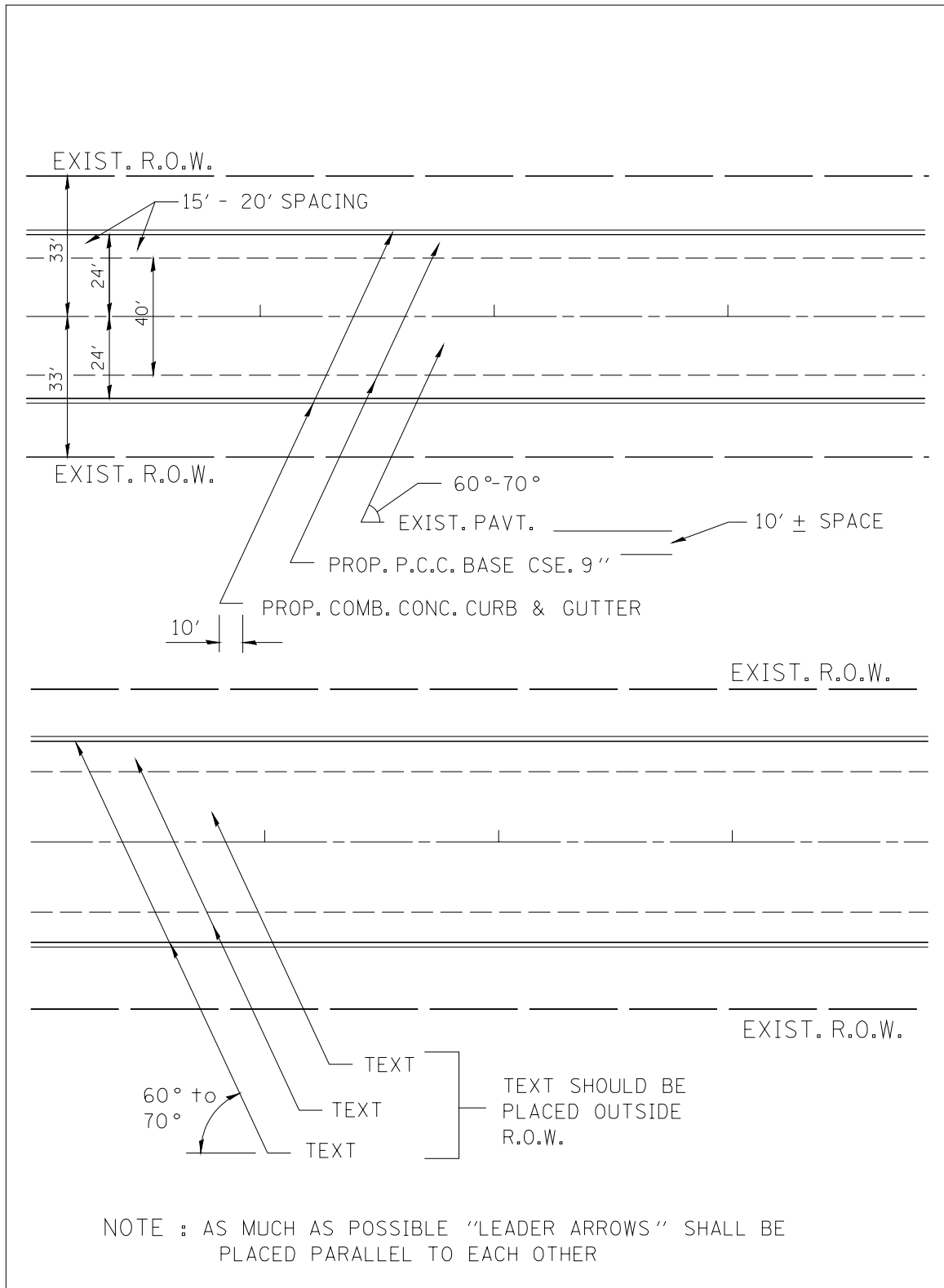


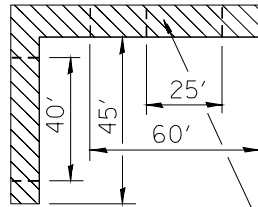
### II. TEXT ABOVE LINE



### SECTION A-A

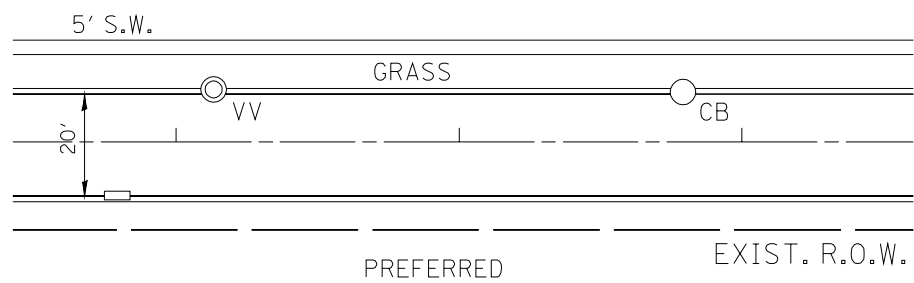
### III. VARIOUS WAYS OF SHOWING DIMENSION LINES





NOTE : BREAK LEADER ARROW PASSING THRU TEXT AND DIMENSION LINES. NO BREAKS WHEN IT PASSES THRU AN OBJECT.

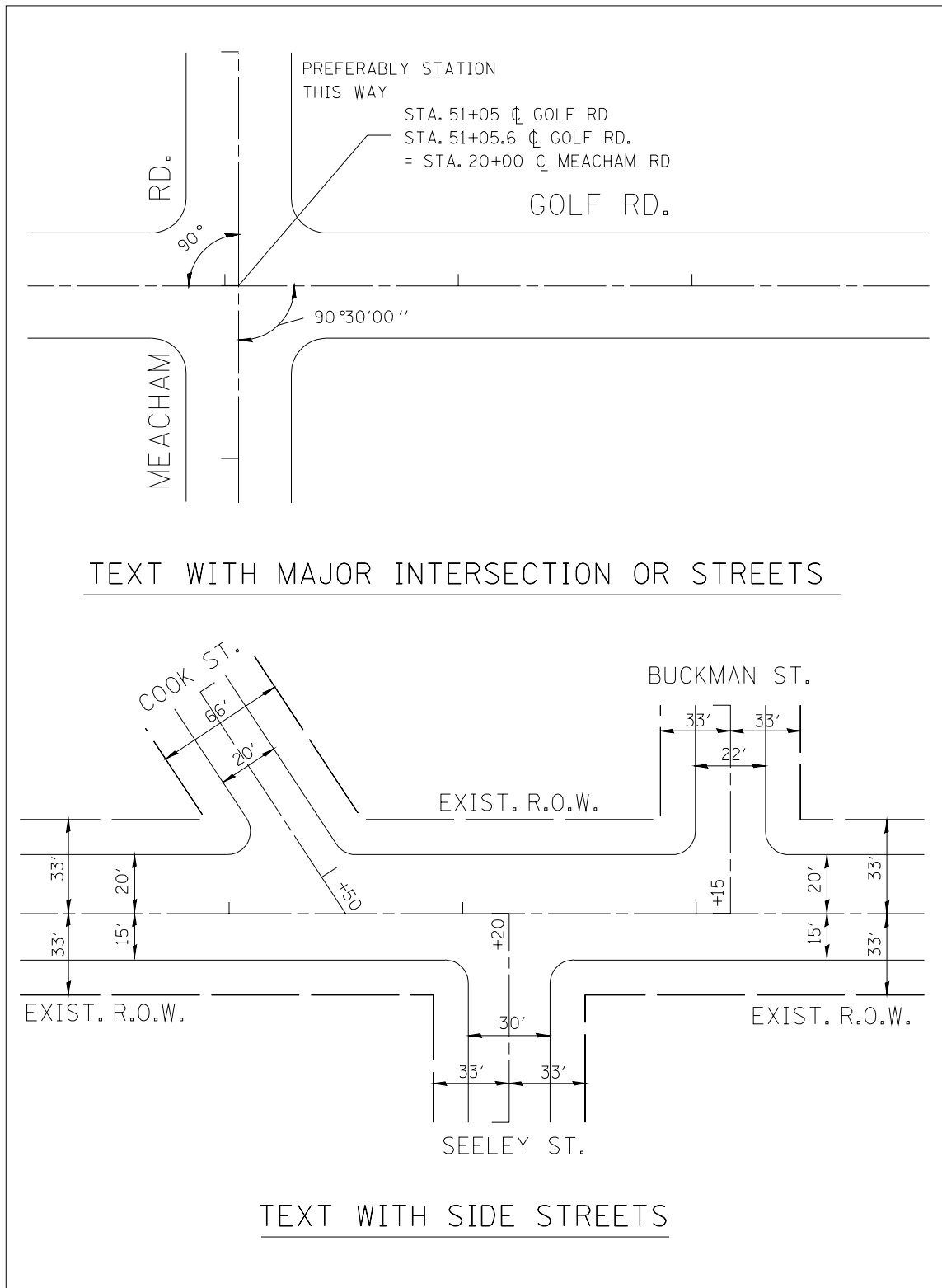
TYPICAL LINE BREAKS WHEN WITNESS LINES DIMENSION LINES, AND LEADER ARROW CROSSES ONE ANOTHER. DON'T BREAK LEADER ARROW WHEN IT PASSES THRU ELEMENTS OR OBJECTS.

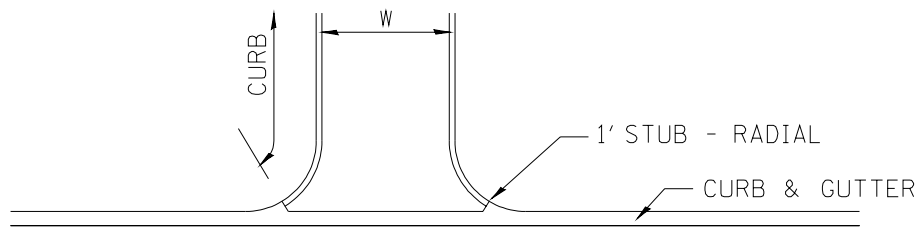


### TEXT PLACEMENT WITH OBJECTS

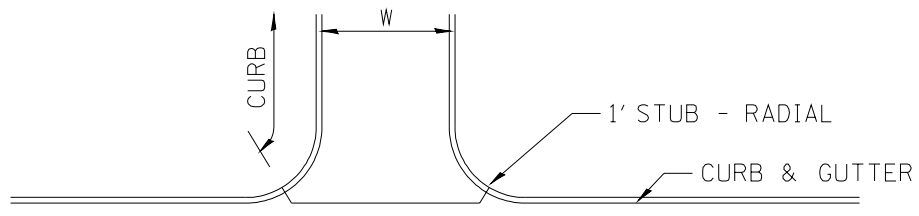
NOTE: DO NOT PLACE TEXT ON ELEMENTS OR OBJECTS.



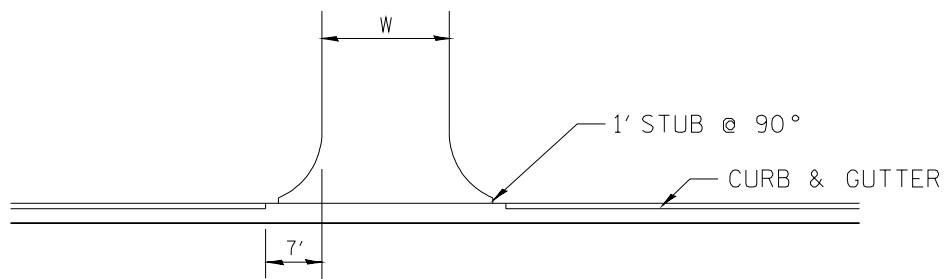




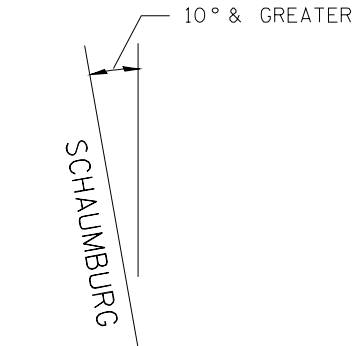
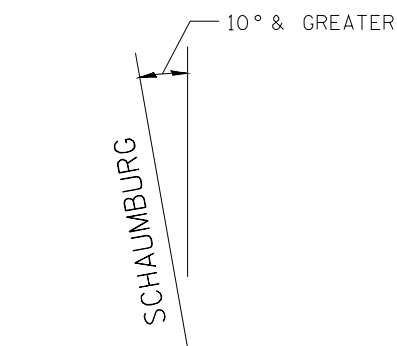
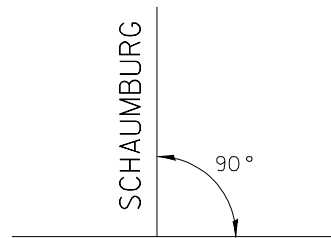
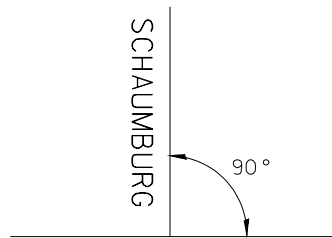
DRIVEWAY DETAILS  
WITH CONCRETE CURB  
2 LINES C & G



DRIVEWAY DETAILS  
WITH CONCRETE CURB  
3 LINES C & G



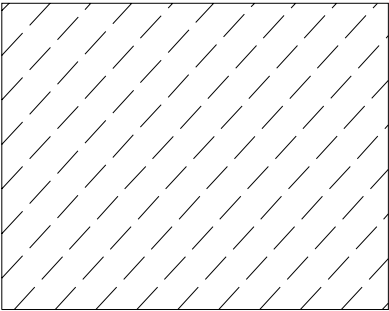
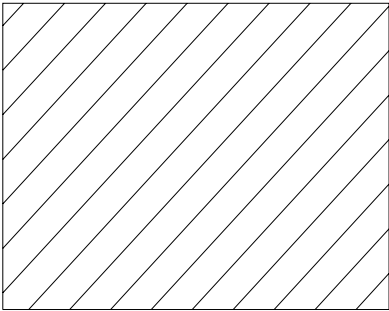
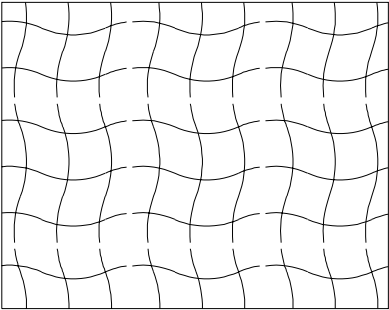
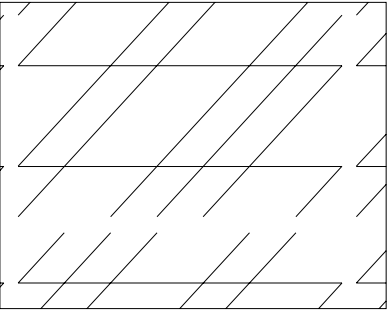
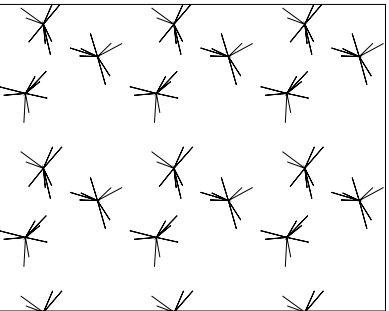
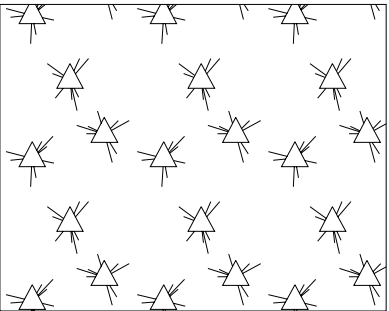
DRIVEWAY DETAILS  
WITHOUT CONC. CURB  
3 LINES C & G

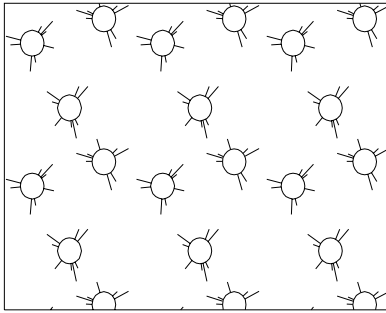


UNDESIRABLE

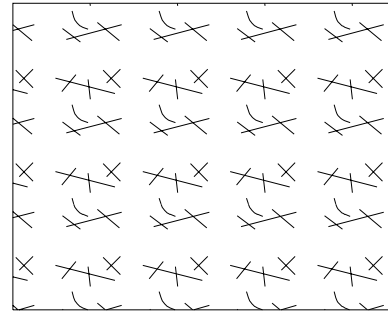
PREFERRED

TYPICAL EXAMPLE OF PLACING  
"TEXT" AT AN ANGLE

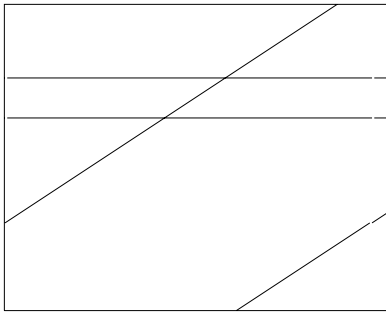
|  |  |
|--|--|
| <p><b>PAVEMENT MARKING EX</b></p>  <p><b>SHOULDER DIAGONAL PATTERN</b></p> <p>ROW SPACING: 3.281    ANGLE: 45<br/>COLUMN SPACING: N/A    LV: 07</p>                           | <p><b>PAVEMENT MARKING PR</b></p>  <p><b>SHOULDER DIAGONAL PATTERN</b></p> <p>ROW SPACING: 3.281    ANGLE: 45<br/>COLUMN SPACING: N/A    LV: 09</p>                            |
| <p><b>EROSION &amp; SEDIMENT CONTROL</b></p>  <p><b>CELL: C01220 - EROSION CONTROL BLANKET</b></p> <p>ROW SPACING: 0.656    ANGLE: 0<br/>COLUMN SPACING: 0.656    LV: 23</p> | <p><b>EROSION &amp; SEDIMENT CONTROL</b></p>  <p><b>CELL: C01235 - FIBER MAT</b></p> <p>ROW SPACING: 1.64    ANGLE: 0<br/>COLUMN SPACING: 1.64    LV: 23</p>                  |
| <p><b>EROSION &amp; SEDIMENT CONTROL</b></p>  <p><b>CELL: C01286 - MULCH METHOD 1</b></p> <p>ROW SPACING: .328    ANGLE: 0<br/>COLUMN SPACING: .328    LV: 23</p>           | <p><b>EROSION &amp; SEDIMENT CONTROL</b></p>  <p><b>CELL: C01287 - MULCH METHOD 2 STABILIZED</b></p> <p>ROW SPACING: .328    ANGLE: 0<br/>COLUMN SPACING: .328    LV: 23</p> |

**EROSION & SEDIMENT CONTROL****CELL: C01288 - MULCH METHOD 3 HYDRAULIC**

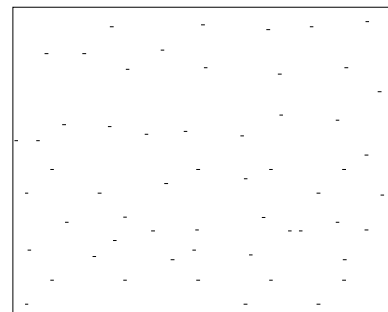
ROW SPACING: 0.328    ANGLE: 0  
 COLUMN SPACING: 0.328    LV: 23

**EROSION & SEDIMENT CONTROL****CELL: C01299 - MULCH TEMPORARY**

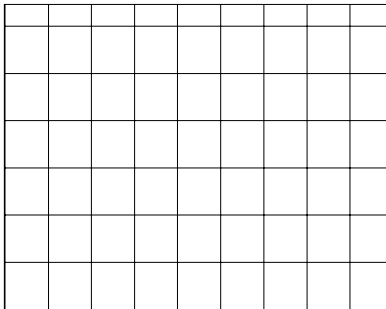
ROW SPACING: 0.328    ANGLE: 0  
 COLUMN SPACING: 0.328    LV: 23

**LANDSCAPING****CELL: C00764 - PERENNIAL PLANTS**

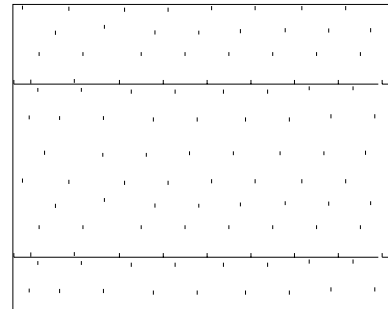
ROW SPACING: 0    ANGLE: 0  
 COLUMN SPACING: 0    LV: 23

**LANDSCAPING****CELL: C00765 - SEEDING CLASS 2**

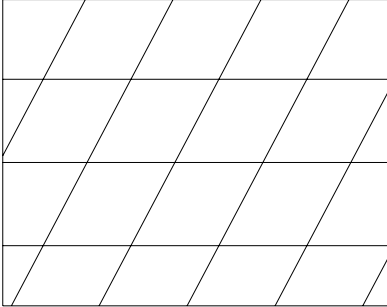
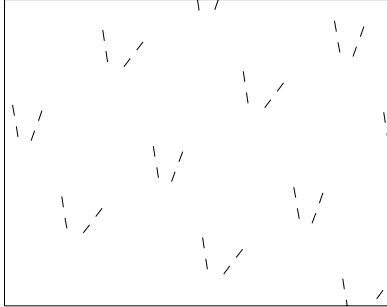
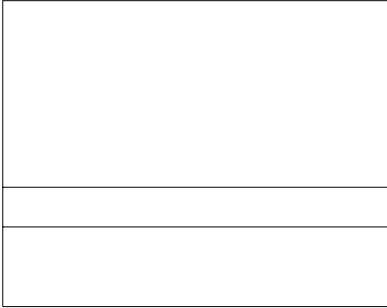
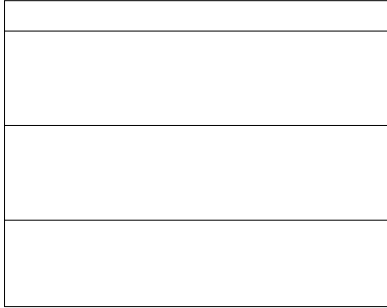
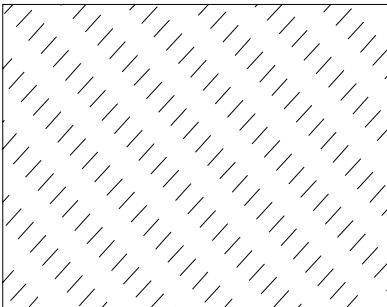
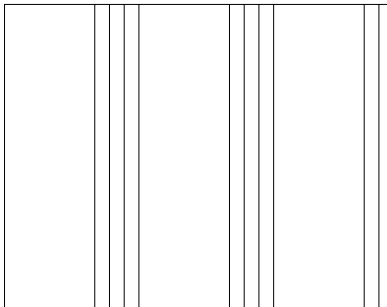
ROW SPACING: 0    ANGLE: 0  
 COLUMN SPACING: 0    LV: 23

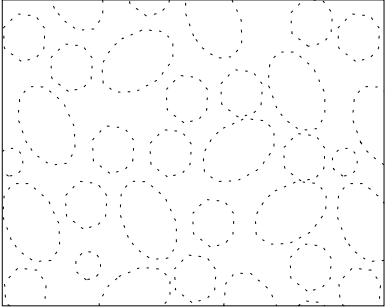
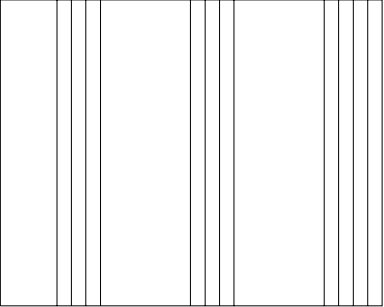
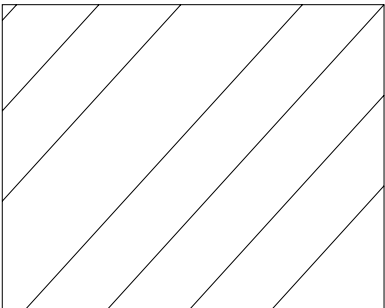
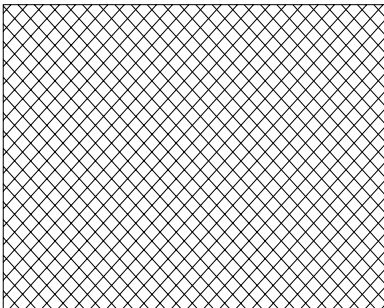
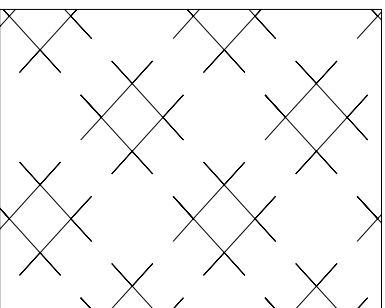
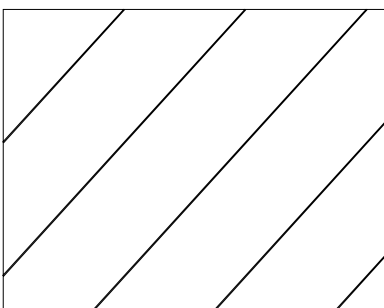
**LANDSCAPING****SEEDING CLASS 3**

ROW SPACING: 4.921    ANGLES: 0,90  
 COLUMN SPACING: 4.921    LV: 23

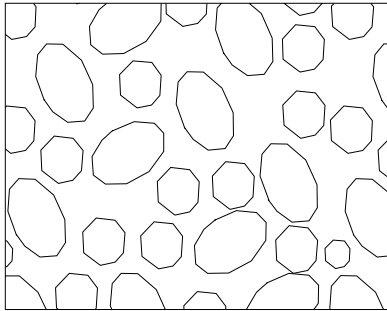
**LANDSCAPING****CELL: C00758 - SEEDING CLASS 4**

ROW SPACING: 0    ANGLE: 180  
 COLUMN SPACING: 0    LV: 23

|   |   |
|---|---|
| <p><b>LANDSCAPING</b></p>  <p><b>SEEDING CLASS 5</b></p> <p>ROW SPACING: 8.661    ANGLE: 0,60<br/>COLUMN SPACING: 8.661    LV: 23</p>            | <p><b>LANDSCAPING</b></p>  <p><b>CELL: C01275 - SEEDING CLASS 7</b></p> <p>ROW SPACING: 1.64    ANGLE: 345<br/>COLUMN SPACING: 1.64    LV: 23</p>       |
| <p><b>LANDSCAPING</b></p>  <p><b>CELL: C00755 - SEEDLINGS TYPE 1</b></p> <p>ROW SPACING: 29.856    ANGLE: 0<br/>COLUMN SPACING: 0    LV: 23</p> | <p><b>LANDSCAPING</b></p>  <p><b>SEEDLINGS TYPE 2</b></p> <p>ROW SPACING: 9.843    ANGLE: 0<br/>COLUMN SPACING: N/A    LV: 23</p>                      |
| <p><b>LANDSCAPING</b></p>  <p><b>CELL: C00760 - SODDING</b></p> <p>ROW SPACING: 1.969    ANGLE: 45<br/>COLUMN SPACING: 0.969    LV: 23</p>     | <p><b>ROADWAY PLAN EX</b></p>  <p><b>CELL: C00496 - CORRUGATED MEDIAN</b></p> <p>ROW SPACING: 10.328    ANGLE: 90<br/>COLUMN SPACING: 0    LV: 28</p> |

|   |  |
|---|--|
| <p><b>DRAINAGE EX</b></p>  <p>CELL: C01262 - RIPRAP</p> <p>ROW SPACING: 0      ANGLE: 0<br/> COLUMN SPACING: 0      LV: 37<br/> SCALE: 2</p>                                   | <p><b>ROADWAY PLAN PR</b></p>  <p>CELL: C00421 - CORRUGATED MEDIAN</p> <p>ROW SPACING: 10.328      ANGLE: 90<br/> COLUMN SPACING: 0      LV: 46</p>                    |
| <p><b>CONSTRUCTION PAVT. DETAILS</b></p>  <p>CELL: C00435 - BITUMINOUS SHOULDER</p> <p>ROW SPACING: 9.843      ANGLE: 45<br/> COLUMN SPACING: 0      LV: 49<br/> SCALE: 2</p> | <p><b>CONSTRUCTION PAVT. DETAILS</b></p>  <p>CELL: C00431 - BITUMINOUS TAPER</p> <p>ROW SPACING: 1.312      ANGLES: 45,135<br/> COLUMN SPACING: 1.312      LV: 49</p> |
| <p><b>CONSTRUCTION PAVT. DETAILS</b></p>  <p>CELL: C00432 - STABILIZED DRIVEWAY</p> <p>ROW SPACING: 3.281      ANGLE: 45<br/> COLUMN SPACING: 3.281      LV: 49</p>          | <p><b>CONSTRUCTION PAVT. DETAILS</b></p>  <p>CELL: C00436 - WIDENING</p> <p>ROW SPACING: 9.843      ANGLE: 45<br/> COLUMN SPACING: N/A      LV: 49</p>               |

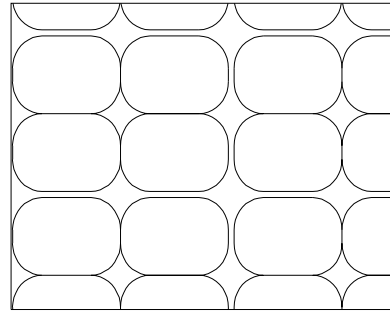
**DRAINAGE PR**



CELL: C01260 - RIPRAP

ROW SPACING: 0      ANGLE: 0  
COLUMN SPACING: 0      LV: 52  
SCALE: 2

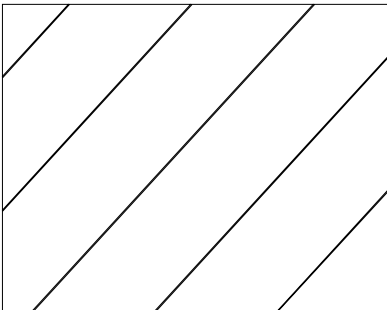
**EROSION & SEDIMENT CONTROL**



CELL: C01225 - FABRIC FORMED CONC. REVET. MAT

ROW SPACING: 0.656      ANGLE: 0  
COLUMN SPACING: 0.656      LV: 52

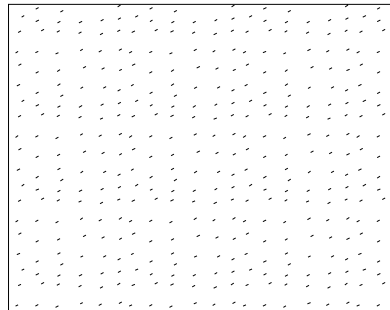
**ADJUSTMENT ITEMS**



CELL: C00459 - PAVEMENT REMOVAL & REPLACE.

ROW SPACING: 9.843      ANGLE: 45  
COLUMN SPACING: N/A      LV: 53

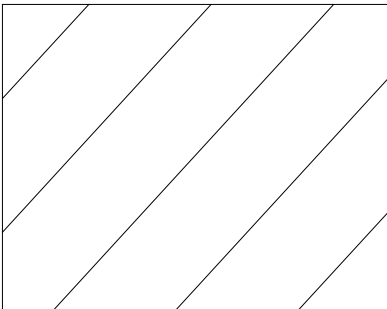
**REMOVAL ITEMS**



CELL: C00780 - BITUMINOUS REMOVAL

ROW SPACING: 0      ANGLE: 180  
COLUMN SPACING: 0      LV: 54

**REMOVAL ITEMS**



CELL: C00480 - HATCH

ROW SPACING: 9.843      ANGLE: 45  
COLUMN SPACING: N/A      LV: 54



# CHAPTER 6

## Level Assignments

## I. CADD LEVEL ASSIGNMENTS

| Level | Feature Display               | Items Displayed   | Corres. Level |
|-------|-------------------------------|---|---------------|
| 1     | Not Plotted                   | Reference File Frames   | *             |
| 2     | Alignment                     | Centerline, baseline, survey line, stationing, roadway name..   | 42            |
| 3     | Roadway Profile (Existing)    | Profile of roadway, vertical curve data, profile elevations and notes, and plan roadway dimensioning.   | 43            |
| 4     | Vegetation                    | Existing trees, brush, hedges, forests, and associated text.  | 23            |
| 5     | Water                         | Existing lakes, rivers, streams, ditches, marshes, swamps, ponds and associated text.   | *             |
| 6     | Right of Way (Existing)       | Right of way, access control fencing, right of way markers, easements, associated text.   | 40            |
| 7     | Pavement Markings (existing)  | Parking marking lines, letters and symbols, and raised pavement markers.  | 9             |
| 8     | Non-Highway Improvements      | Buildings, fences, parking lots, advertising signs, mailboxes and associated text.  | *             |
| 9     | Pavement Markings (Proposed)  | Parking marking lines, letters and symbols, raised pavement markers and delineators.  | 7             |
| 10    | Political Boundaries          | County lines, municipal boundaries, township lines, state lines.  | *             |
| 11    | Traffic Signals (Existing)    | Traffic signal plan to be shown on main roadway drawing and detail sheets   | 13            |
| 12    | Private Boundaries (Existing) | Property lines, from property pins, iron pipe markers, survey markers, section corners, same ownership symbol, owners names, and property line symbol.  | *             |
| 13    | Traffic Signals (Proposed)    | Traffic signal plan to be shown on main roadway drawing and detail sheets   | 11            |
| 14    | Utilities (Existing)          | Power poles, telephone poles, light poles, traffic signals from survey data, fire hydrants, valve vaults, sanitary sewer manholes, above ground splice box, buffalo box, handholes, control cabinets. | 44            |
| 15    | Highway Lighting (Existing)   | Lighting for roadways, rest areas, weigh stations, navigation, aviation obstructions, signing and underpasses.  | 17            |

| Level | Feature Display                         | Items Displayed  | Corres. Level |
|-------|---|--|---------------|
| 16    | Topography Notes (Existing)             | Notes, labels, and object identification text.   | 55            |
| 17    | Highway Lighting (Proposed)             | Lighting for roadways, rest areas, weigh stations, navigation, aviation obstructions, signing and underpasses.   | 15            |
| 18    | Utilities Notes (Existing)              | Notes, labels and object identification of utility items.  | 45            |
| 19    | Traffic Systems Center (Existing)       | Existing Traffic Systems Center details (Dist. 1 only).  | 21            |
|       | Soil Borings                            | Soil boring details, plan and profile.   |               |
| 20    | Alignment Notes (Existing)              | Horizontal curve data and notes, ties, benchmarks, PC & PT Stations, and Station Equations.  | 24            |
| 21    | Erosion & Sediment Control (Temp Items) | Temp. ditch checks, erosion control fence, clearing and grading limits, dikes, temp. fence, inlet & pipe protect., perimeter erosion barrier, sediment basins. | 19            |
|       | Traffic Systems Center (Proposed)       | Proposed Traffic Systems Center details (Dist. 1 only).  |               |
| 22    | Drainage Notes (Existing)               | Notes, labels, and object identification of drainage structures.   | 51            |
| 23    | Landscaping Details (Proposed)          | Roadside development plan details: Trees, hedges, seeding, mulch, sodding, mow line, contour mounding line, fiber mat, erosion control blanket.                | 4             |
| 24    | Alignment Notes (Proposed)              | Horizontal curve data and notes, ties, benchmarks, PC & PT Stations, and Station Equations.  | 20            |
| 25    | Roadside Features (Existing)            | Minor pavement, sidewalks, parking lots, private entrances, commercial entrances, parking meters.  | 47            |
| 26    | Contours                                | Ground contours, proposed construction limits.   | *             |
| 27    | Edge of Pavement (Existing)             | Existing edge of pavement for dedicated roadways (streets, roads, alleys, etc.).   | 29            |
| 28    | Roadway Plan                            | Major pavement, medians, curbs, curbs and gutters, gutters, shoulders, and guardrail.  | 46            |
| 29    | Edge of Pavement (Proposed)             | Proposed edge of pavement for dedicated roadways (streets, roads, alleys, etc.).   | 27            |
| 30    | Aerial Survey Control Points            | Aerial Surveys Horizontal and Vertical Control Points, Principal Points (PPs).   | *             |
| 31    | Aerial Survey Legend                    | Aerial Survey Legend   | *             |

| <b>Level</b> | <b>Feature Display</b>                                   | <b>Items Displayed</b>   | <b>Corres. Level</b> |
|--------------|--|--|----------------------|
| 32           | Aerial Survey Spot Elevations                            | Aerial Surveys Ground Spot Elevations, DTM Mass Points.  | *                    |
| 33           | Aerial Survey Grid                                       | State Plane Grid   | *                    |
| 34           | Aerial Survey Map Limits<br>ROW Dim (Existing)           | Aerial Surveys Map Borders (limits)<br>Existing ROW dimensioning.  | 36                   |
| 35           | General Details and Plan Format Sheet Cells              | Detail drawings, north arrow, match lines, plan sheet, plan and profile sheet, IDS sheet, ROW plat sheet, plat of highway sheet, premise plat sheet, excess ROW plat sheet, ROW plan sheet, typical sections.                      | *                    |
| 36           | Aerial Survey Cross Section Points<br>ROW Dim (Proposed) | Cross section points and triangles.<br>Proposed ROW dimensioning.  | 34                   |
| 37           | Existing Drainage Plan/Profile                           | Catch basins, manholes, inlets, ditch checks, end sections, headwalls, pipe culverts, drainage boundary line, drainage summit symbol, ditch flow line, special ditch profile, riprap, paved ditch, aggregate ditch, sewer profile. | 52                   |
| 38           | Railroad (Existing)                                      | Control box, crossing gates, railroad tracks, railroad signal, overpasses, grade crossings.  | 48                   |
| 39           | Structures (Existing)                                    | Bridges, box culverts  | 50                   |
| 40           | Right of Way (Proposed)                                  | Right of way, access control fencing, right of way markers, easements and associated text.   | 6,59                 |
| 41           | Coordinate Data  | Coordinates, north and east.   | *                    |
| 42           | Alignment (Proposed)                                     | Centerline, baseline, survey line, stationing, roadway name..  | 2                    |
| 43           | Roadway Profile  | Profile of roadway, vertical curve data, profile elevations and notes, and plan roadway dimensioning.  | 3                    |
| 44           | Utilities (Proposed)                                     | Power poles, telephone poles, light poles, traffic signals from survey data, fire hydrants, valve vaults, sanitary sewer manholes, above ground splice box, buffalo box, handholes, control cabinets.                              | 14                   |
| 45           | Utility Notes (Proposed)                                 | Notes, labels and object identification of utility items.  | 18                   |

| Level | Feature Display  | Items Displayed  | Corres. Level |
|-------|--|--|---------------|
| 46    | Roadway Plan (Proposed)  | Medians, curbs, curbs and gutters, gutters, shoulders, and guardrail.  | 28            |
| 47    | Roadside Features (Proposed)                                       | Minor pavement, sidewalks, parking lots, private entrances, commercial entrances, parking meters.  | 25            |
| 48    | Railroads (Proposed)   | Control box, crossing gates, railroad tracks, railroad signal, overpasses, grade crossings.  | 38            |
| 49    | Construction Signing and Detail Drawings (Proposed)                | Detours, construction warning signs, detail drawings, and area patterns for miscellaneous pavements.   | *             |
| 50    | Structures (Proposed)  | Bridges, box culverts  | 39            |
| 51    | Drainage Notes (Proposed)  | Notes, labels, and object identification of drainage structures.   | 22            |
| 52    | Drainage Plan/Profile (Proposed)<br><br>Erosion & Sediment Control | Catch basins, manholes, inlets, ditch checks, end sections, headwalls, pipe culverts, drainage boundary line, drainage summit symbol, ditch flow line, special ditch profile, sewer profile.<br>Aggregate ditch, paved ditch, riprap and fabric formed concrete revetment mat. | 37            |
| 53    | Adjustment Items (Proposed)  | Notations for drainage and/or utility items to be adjusted.  | *             |
| 54    | Removal Items (Proposed)   | Hatch pattern or tic mark pattern indicating item to be removed; (i.e., Sidewalk or median removal)  | *             |
| 55    | Roadway Plan Notes (Proposed)                                      | Notes, labels and object identification for proposed roadway.  | 16            |
| 56    | Aerial Surveys   | Centerlines, x-section lines, break lines and shear diagrams.  | *             |
| 57    | Underground Drainage & Utilities (Existing)                        | Existing sanitary sewer, underground pipe lines, underground cables, pipe underdrains, storm sewers.   | 58            |
| 58    | Underground Drainage & Utilities (Proposed)                        | Proposed sanitary sewer, underground pipe lines, underground cables, pipe underdrains, storm sewers.   | 57            |
| 59    | ROW Plans  | Temporary easements and notes (proposed).  | 40            |
| 60    | Unassigned   | Used for Districts, GEOPAK and Aerial Surveys  | *             |
| 61    | Unassigned   | Used for Districts, GEOPAK and Aerial Surveys  | *             |
| 62    | Unassigned   | Used for Districts, GEOPAK and Aerial Surveys  | *             |
| 63    | Unassigned   | Used for Districts, GEOPAK and Aerial Surveys  | *             |

## CHAPTER 7

### Common Cell Abbreviations

|       |                               |
|-------|-------------------------------|
| ABV   | ABOVE                         |
| A/C   | ACCESS CONTROL                |
| AC    | ACRE                          |
| ADJ   | ADJUST                        |
| AS    | AERIAL SURVEYS                |
| AGG   | AGGREGATE                     |
| AH    | AHEAD                         |
| APT   | APARTMENT                     |
| ASPH  | ASPHALT                       |
| AGS   | AUXILIARY GAS VALVE (SERVICE) |
| AX    | AXIS OF ROTATION              |
| BK    | BACK                          |
| B-B   | BACK TO BACK                  |
| BKPL  | BACKPLATE                     |
| BARR  | BARRICADE                     |
| BGN   | BEGIN                         |
| BM    | BENCHMARK                     |
| BIND  | BINDER                        |
| BIT   | BITUMINOUS                    |
| BTM   | BOTTOM                        |
| BLVD  | BOULEVARD                     |
| BRK   | BRICK                         |
| BBOX  | BUFFALO BOX                   |
| BLDG  | BUILDING                      |
| CIP   | CAST IRON PIPE                |
| CB    | CATCH BASIN                   |
| C-C   | CENTER TO CENTER              |
| CL    | CENTERLINE                    |
| CL-E  | CENTERLINE TO EDGE            |
| CL-F  | CENTERLINE TO FACE            |
| CERT  | CERTIFIED                     |
| CHSLD | CHISELED                      |
| CP    | CLAY PIPE                     |
| CLSD  | CLOSED                        |
| CLID  | CLOSED LID                    |
| CS    | CITY STREET                   |
| CT    | COAT                          |
| COMB  | COMBINATION                   |
| CE    | COMMERCIAL ENTRANCE           |
| CONC  | CONCRETE                      |
| CONST | CONSTRUCT                     |
| CONTD | CONTINUED                     |
| CONT  | CONTINUOUS                    |
| COR   | CORNER                        |
| CORR  | CORRUGATED                    |

|                 |                                       |
|-----------------|---------------------------------------|
| CMP             | CORRUGATED METAL PIPE                 |
| CNTY            | COUNTY                                |
| CH              | COUNTY HIGHWAY                        |
| CSE             | COURSE                                |
| XSECT           | CROSS SECTION                         |
| m <sup>3</sup>  | CUBIC METER                           |
| mm <sup>3</sup> | CUBIC MILLIMETER                      |
| CU YD           | CUBIC YARD                            |
| CULV            | CULVERT                               |
| C&G             | CURB & GUTTER                         |
| D               | DEGREE OF CURVE                       |
| DC              | DEPRESSED CURB                        |
| DET             | DETECTOR                              |
| DIA             | DIAMETER                              |
| DIST            | DISTRICT                              |
| DOM             | DOMESTIC                              |
| DBL             | DOUBLE                                |
| DSEL            | DOWNSTREAM ELEVATION                  |
| DSFL            | DOWNSTREAM FLOWLINE                   |
| DR              | DRAINAGE                              |
| DI              | DRAINAGE INLET OR DROP INLET          |
| DRV             | DRIVEWAY                              |
| DCT             | DUCT                                  |
| EA              | EACH                                  |
| EB              | EASTBOUND                             |
| EOP             | EDGE OF PAVEMENT                      |
| E-CL            | EDGE TO CENTERLINE                    |
| E-E             | EDGE TO EDGE                          |
| EL              | ELEVATION                             |
| ENTR            | ENTRANCE                              |
| EXC             | EXCAVATION                            |
| EX              | EXISTING                              |
| EXPWAY          | EXPRESSWAY                            |
| E               | OFFSET DISTANCE TO VERTICAL CURVE     |
| E               | EXTERNAL DISTANCE OF HORIZONTAL CURVE |
| F-F             | FACE TO FACE                          |
| FA              | FEDERAL AID                           |
| FAI             | FEDERAL AID INTERSTATE                |
| FAP             | FEDERAL AID PRIMARY                   |
| FAS             | FEDERAL AID SECONDARY                 |
| FAUS            | FEDERAL AID URBAN SECONDARY           |
| FP              | FENCE POST                            |
| FE              | FIELD ENTRANCE                        |
| FH              | FIRE HYDRANT                          |
| FL              | FLOW LINE                             |
| FB              | FOOT BRIDGE                           |
| FDN             | FOUNDATION                            |
| FR              | FRAME                                 |
| F&G             | FRAME & GRATE                         |

|        |                             |
|--------|-----------------------------|
| FRWAY  | FREEWAY                     |
| GAL    | GALLON                      |
| GALV   | GALVANIZED                  |
| GM     | GAS METER                   |
| GV     | GAS VALVE                   |
| GRAN   | GRANULAR                    |
| GR     | GRATE                       |
| GRVL   | GRAVEL                      |
| GND    | GROUND                      |
| GUT    | GUTTER                      |
| HH     | HANDHOLE                    |
| HATCH  | HATCHING                    |
| HD     | HEAD                        |
| HDW    | HEADWALL                    |
| HDUTY  | HEAVY DUTY                  |
| ha     | HECTARE                     |
| HWY    | HIGHWAY                     |
| HORIZ  | HORIZONTAL                  |
| HSE    | HOUSE                       |
| IL     | ILLINOIS                    |
| IMP    | IMPROVEMENT                 |
| IN DIA | INCH DIAMETER               |
| INL    | INLET                       |
| INST   | INSTALLATION                |
| IDS    | INTERSECTION DESIGN STUDIES |
| INV    | INVERT                      |
| IP     | IRON PIPE                   |
| IR     | IRON ROD                    |
| JT     | JOINT                       |
| kg     | KILOGRAM                    |
| km     | KILOMETER                   |
| LS     | LANDSCAPING                 |
| LN     | LANE                        |
| LT     | LEFT                        |
| LP     | LIGHT POLE                  |
| LGT    | LIGHTING                    |
| LF     | LINEAL FEET OR LINEAR FEET  |
| L      | LITER OR CURVE LENGTH       |
| LC     | LONG CHORD                  |
| LNG    | LONGITUDINAL                |
| L SUM  | LUMP SUM                    |
| MACH   | MACHINE                     |
| MB     | MAIL BOX                    |
| MH     | MANHOLE                     |
| MATL   | MATERIAL                    |
| MED    | MEDIAN                      |
| m      | METER                       |
| METH   | METHOD                      |
| MBH    | MOBILE HOME                 |



|         |   |
|---------|---|
| M       | MID-ORDINATE                                |
| mm      | MILLIMETER                                  |
| mm DIA  | MILLIMETER DIAMETER                         |
| MIX     | MIXTURE                                     |
| MFT     | MOTOR FUEL TAX                              |
| MOD     | MODIFIED                                    |
| N & BC  | NAIL & BOTTLE CAP                           |
| N & C   | NAIL & CAP                                  |
| N & W   | NAIL & WASHER                               |
| NB      | NORTHBOUND                                  |
| NE      | NORTHEAST                                   |
| NC      | NORMAL CROWN                                |
| NOAA    | NATIONAL OCEANIC ATMOSPHERIC ADMINISTRATION |
| NW      | NORTHWEST                                   |
| OLID    | OPEN LID                                    |
| PAT     | PATTERN                                     |
| PVD     | PAVED                                       |
| PVMT    | PAVEMENT                                    |
| PM      | PAVEMENT MARKING                            |
| PED     | PEDESTAL                                    |
| PNT     | POINT                                       |
| PC      | POINT OF CURVATURE                          |
| PI      | POINT OF INTERSECTION OF HORIZONTAL CURVE   |
| PRC     | POINT OF REVERSE CURVATURE                  |
| PT      | POINT OF TANGENCY                           |
| POT     | POINT ON TANGENT                            |
| POLYETH | POLYETHYLENE                                |
| PCC     | PORTLAND CEMENT CONCRETE                    |
| PP      | POWER POLE OR PRINCIPAL POINT               |
| PRM     | PRIME                                       |
| PE      | PRIVATE ENTRANCE                            |
| PROF    | PROFILE GRADELINE                           |
| PROJ    | PROJECT                                     |
| P.C.    | PROPERTY CORNER                             |
| PL      | PROPERTY LINE                               |
| PR      | PROPOSED                                    |
| R       | RADIUS                                      |
| RR      | RAILROAD                                    |
| RC      | REMOVE CROWN                                |
| RPS     | REFERENCE POINT STAKE                       |
| RRS     | RAILROAD SPIKE                              |
| REF     | REFLECTIVE                                  |
| RCCP    | REINFORCED CONCRETE CULVERT PIPE            |
| REINF   | REINFORCEMENT                               |
| RET     | RETAINING                                   |
| REM     | REMOVAL                                     |
| REP     | REPLACEMENT                                 |
| REST    | RESTAURANT                                  |
| RESURF  | RESURFACING                                 |

|                 |                                 |
|-----------------|---------------------------------|
| RT              | RIGHT                           |
| ROW             | RIGHT-OF-WAY                    |
| RD              | ROAD                            |
| RDWY            | ROADWAY                         |
| RTE             | ROUTE                           |
| SAN             | SANITARY                        |
| SANS            | SANITARY SEWER                  |
| SEC             | SECTION                         |
| SEED            | SEEDING                         |
| SHAP            | SHAPING                         |
| SH              | SHEET                           |
| SHLD            | SHOULDER                        |
| SW              | SIDEWALK                        |
| SIG             | SIGNAL                          |
| SOD             | SODDING                         |
| SM              | SOLID MEDIAN                    |
| SB              | SOUTHBOUND                      |
| SE              | SOUTHEAST                       |
| SW              | SOUTHWEST                       |
| SPL             | SPECIAL                         |
| SD              | SPECIAL DITCH                   |
| SQ FT           | SQUARE FEET                     |
| m <sup>2</sup>  | SQUARE METER                    |
| mm <sup>2</sup> | SQUARE MILLIMETER               |
| SQ YD           | SQUARE YARD                     |
| STB             | STABILIZED                      |
| STD             | STANDARD                        |
| SBI             | STATE BOND ISSUE                |
| SM              | STATE OF ILLINOIS SURVEY MARKER |
| SR              | STATE ROUTE                     |
| STA             | STATION                         |
| SPBGR           | STEEL PLATE BEAM GUARDRAIL      |
| SS              | STORM SEWER                     |
| STY             | STORY                           |
| ST              | STREET                          |
| STR             | STRUCTURE                       |
| e               | SUPERELEVATION RATE             |
| S.E. RUN.       | SUPERELEVATION RUNOFF LENGTH    |
| SURF            | SURFACE                         |
| SMK             | SURVEY MARKER                   |
| T               | TANGENT DISTANCE                |
| T.R.            | TANGENT RUNOUT DISTANCE         |
| TEL             | TELEPHONE                       |
| TB              | TELEPHONE BOX                   |
| TP              | TELEPHONE POLE                  |
| TEMP            | TEMPORARY                       |
| TBM             | TEMPORARY BENCH MARK            |
| TD              | TILE DRAIN                      |
| TBE             | TO BE EXTENDED                  |

|        |                                |
|--------|--------------------------------|
| TBR    | TO BE REMOVED                  |
| TBS    | TO BE SAVED                    |
| TWP    | TOWNSHIP                       |
| TR     | TOWNSHIP ROAD                  |
| TS     | TRAFFIC SIGNAL                 |
| TSCB   | TRAFFIC SIGNAL CONTROL BOX     |
| TSC    | TRAFFIC SYSTEMS CENTER         |
| TRVS   | TRANSVERSE                     |
| TRVL   | TRAVEL                         |
| TRN    | TURN                           |
| TY     | TYPE                           |
| T-A    | TYPE A                         |
| UNDGND | UNDERGROUND                    |
| USGS   | U.S. GEOLOGICAL SURVEY         |
| USEL   | UPSTREAM ELEVATION             |
| USFL   | UPSTREAM FLOWLINE              |
| UTIL   | UTILITY                        |
| VBOX   | VALVE BOX                      |
| VV     | VALVE VAULT                    |
| VLT    | VAULT                          |
| VEH    | VEHICLE                        |
| VP     | VENT PIPE                      |
| VERT   | VERTICAL                       |
| VC     | VERTICAL CURVE                 |
| VPC    | VERTICAL POINT OF CURVATURE    |
| VPI    | VERTICAL POINT OF INTERSECTION |
| VPT    | VERTICAL POINT OF TANGENCY     |
| WM     | WATER MAIN                     |
| WV     | WATER VALVE                    |
| WMAIN  | WATERMAIN                      |
| WB     | WESTBOUND                      |
| WILDFL | WILDFLOWERS                    |
| W      | WITH                           |
| WO     | WITHOUT                        |

## CHAPTER 8

# Alphabetic Index To Cell Library

### Note:

Cells with a TSC prefix are to be used for Traffic Systems Center jobs only.

Cells with an AS prefix are to be used for Aerial Surveys work.

Cells are sized to be displayed with 1:600 plots assuming an active scale of one.

Exceptions to this are noted with the cells. Cells display level = color except when noted otherwise (generally utilities).

| NAME   | DESCRIPTION                 |
|--------|-----------------------------|
| C00125 | ADVERTISING SIGN            |
| C00439 | AGG SHOULDER PATTERN        |
| C00115 | ALI PI INDICATOR EX         |
| C00408 | ALI PI INDICATOR PR         |
| C00175 | ALI POINT INDICATOR EX      |
| C00199 | ALI POINT INDICATOR PR      |
| C00145 | ARROW FILLED                |
| C00391 | AS DIST MAPING GENRL LEGEND |
| C00345 | AS GRID TICK                |
| C00201 | AS HORIZ CONTROL STATION    |
| C00202 | AS HORIZ CONTROL TARGET     |
| C00203 | AS HORIZ PICTURE TIE        |
| C00294 | AS NORTH ARROW              |
| C00322 | AS NOTE BRIDGE              |
| C00309 | AS NOTE BUILDING CLASS      |
| C00312 | AS NOTE DISCLAIMER          |
| C00293 | AS NOTE NAD 27 GRID         |
| C00301 | AS NOTE NAD 83 GRID         |
| C00292 | AS NOTE NAVD 88             |
| C00291 | AS NOTE NGVD 29             |
| C00207 | AS PRINCIPAL POINT          |
| C00295 | AS SCALE BAR                |
| C00303 | AS SHEET INDEX LEFT         |
| C00302 | AS SHEET INDEX RIGHT        |
| C00313 | AS SHEET INDEX VERTICAL     |

|        |                             |
|--------|-----------------------------|
| C00283 | AS SPOT EL SYMBOL           |
| C00383 | AS TEST X                   |
| C00290 | AS TITLE BOX 9 9 94         |
| C00245 | AS UTIL TRANSMISSION TOWER  |
| C00204 | AS VERTICAL CONTROL STATION |
| C00205 | AS VERTICAL PICTURE TIE     |
| C00273 | AS WATER POINT              |
| C00427 | BARRICADE TYPE II           |
| C00426 | BARRICADES TYPE 1 OR 2 DIA  |
| C00430 | BARRICADES TYPE III         |
| C00425 | BARRICADES W EDGE LINE      |
| C00780 | BIT REMOVAL AREA            |
| C00435 | BIT SHOULDER AREA PAT       |
| C00431 | BIT TAPER PATTERN           |
| C01006 | BURIED CABLE FIB OPT PAT EX |
| C01007 | BURIED CABLE FIB OPT PAT PR |
| C00683 | BURIED CABLE PAT 1 PR       |
| C00687 | BURIED CABLE PAT 1 PR       |
| C01008 | BURIED CABLE TV PAT EX      |
| C01009 | BURIED CABLE TV PAT PR      |
| C00445 | CATCH BASIN PR              |
| C00718 | CBL IN DCT W GND 1 EX       |
| C00722 | CBL IN DCT W GND 1 EX       |
| C00726 | CBL IN DCT W GND 1 EX       |
| C00677 | CBL IN DCT W GND 1 PR       |
| C00730 | CBL IN DCT WO GND 1 EX      |
| C00751 | CBL IN DCT WO GND 1 PR      |
| C00554 | CENTERLINE BREAK CIRCLE PR  |
| C00555 | CENTERLINE STATION TICK PR  |
| C00486 | CL NO TIC PAT EX            |
| C00492 | CL PATTERN PR               |
| C00934 | CONDUIT EX                  |
| C00673 | CONDUIT PR                  |
| C00496 | CORR MED AREA PAT EX        |
| C00421 | CORR MED AREA PAT PR        |
| C00239 | CULTURE POINT               |
| C00143 | CULVERT END SECTION         |
| C00476 | CULVERT END SECTION PR      |
| C00127 | DASHED PROPERTY LINE        |
| C00170 | DECIDUOUS TREE EX           |
| C00648 | DETOUR AHD W20 2            |
| C01004 | DETOUR M4 10L 0             |
| C00638 | DETOUR M4 10R 0             |
| C00422 | DIRECTION OF TRAFFIC        |
| C00361 | DISAPPEARING DITCH          |

|        |                            |
|--------|----------------------------|
| C00163 | DITCH CHECK EX             |
| C00458 | DITCH CHECK PR             |
| C01215 | DITCH CHECK TEMPORARY      |
| C00471 | DOMESTIC SRVC BOX ADJ      |
| C00131 | DR PROF WTR SURF INDIC     |
| C00102 | DRAINAGE CATCH BASIN       |
| C00798 | DRAINAGE FLOW LINE EX      |
| C00799 | DRAINAGE FLOW LINE PR      |
| C00150 | DRAINAGE MANHOLE EX        |
| C00194 | DRAINAGE MANHOLE PR        |
| C00432 | DRIVEWAY STABILIZED PAT PR |
| C00776 | EARTHWORKS BALANCE PNT     |
| C00777 | EARTHWORKS BGN END PNT     |
| C00778 | EASEMENT EX                |
| C00401 | EASEMENT PR                |
| C00553 | ELEC UNDGND PAT PR         |
| C00551 | ELECTRIC UNDGND PAT EX     |
| C00118 | EOP PNT INDICATOR EX       |
| C00198 | EOP PNT INDICATOR PR       |
| C01220 | EROSION CONTROL BLANKET    |
| C00105 | EVERGREEN TREE EX          |
| C01225 | FAB. FRMD. CONC. MAT       |
| C00493 | FENCE PATTERN EX           |
| C01235 | FIBER MAT                  |
| C00233 | FIELD LINE SYMBOL          |
| C00167 | FIRE HYDRANT EX            |
| C00441 | FIRE HYDRANT PR            |
| C00428 | FLASHING LIGHT             |
| C00460 | FRAME AND GRATE ADJUST     |
| C00461 | FRAME AND LID ADJUST       |
| C00558 | GAS PIPE UNDGND PAT EX     |
| C00561 | GAS PIPE UNDGND PAT PR     |
| C01102 | GRAPHIC SCALE DUAL         |
| C00107 | GUARDRAIL PAT EX           |
| C00420 | GUARDRAIL PAT PR           |
| C00216 | GUARDRAIL POST EX          |
| C00110 | HEADWALL EX                |
| C00477 | HEADWALL PR                |
| C00103 | HORIZ CURVE DATA EX        |
| C00485 | HORIZ CURVE DATA PR        |
| C01240 | INLET AND PIPE PROTECTION  |
| C00169 | INLET EX                   |
| C00443 | INLET PR                   |
| C00138 | IRON PIPE FOUND            |
| C00109 | IRON PIPE SET              |

|        |                            |
|--------|----------------------------|
| C00464 | ITEM TO BE ABANDONED       |
| C00468 | ITEM TO BE MOVED           |
| C00469 | ITEM TO BE RELOCATED       |
| C00643 | KEEP LEFT R47AL            |
| C00649 | KEEP LEFT R47BL            |
| C00644 | KEEP RIGHT R47 AR          |
| C00650 | KEEP RIGHT R47BR           |
| C00440 | KEYED LONG JT PATTERN      |
| C00437 | KEYED LONG JT W TIE PAT    |
| C00392 | LABEL FLAG POLE            |
| C00237 | LABEL GOLF GREEN           |
| C00256 | LABEL PIPELINE WARNING     |
| C00257 | LABEL PIPELINE WARNING     |
| C00285 | LABEL ROW                  |
| C00238 | LABEL SAND TRAP            |
| C00264 | LABEL SCRUB                |
| C00234 | LABEL SWIMMING POOL        |
| C00640 | LARGE ARROW ONE WAY W1 6 0 |
| C00639 | LARGE ARROW TWO WAY W1 7 0 |
| C00596 | LEGEND LANDSCAPING         |
| C00668 | LEGEND LGT WIRE DIA PR     |
| C00617 | LEGEND TS EX               |
| C00616 | LEGEND TS PR               |
| C00111 | LEVEE OR NOISE BARRIER     |
| C00634 | LFT LN CLSD AHD W20 5L     |
| C00641 | LFT TRN LANE R3 L100       |
| C00692 | LGT COMB MAST ARM EX       |
| C00671 | LGT COMB MAST ARM PR       |
| C00572 | LGT CONTROLLER EX          |
| C00190 | LGT CONTROLLER PR          |
| C00621 | LGT ELECTRICAL GND EX      |
| C00622 | LGT ELECTRICAL GND PR      |
| C00710 | LGT FOUND A OR C EX        |
| C00670 | LGT FOUND A OR C PR        |
| C00174 | LGT HANDHOLE EX            |
| C00182 | LGT HANDHOLE PR            |
| C00568 | LGT HDUTY HANDHOLE EX      |
| C00183 | LGT HDUTY HANDHOLE PR      |
| C00184 | LGT HDUTY HANDHOLE PR      |
| C00703 | LGT HIGH MAST POLE 1 EX    |
| C00656 | LGT HIGH MAST POLE 1 PR    |
| C00704 | LGT HIGH MAST POLE 2 EX    |
| C00657 | LGT HIGH MAST POLE 2 PR    |
| C00705 | LGT HIGH MAST POLE 3 EX    |
| C00658 | LGT HIGH MAST POLE 3 PR    |

|        |                            |
|--------|----------------------------|
| C00706 | LGT HIGH MAST POLE 4 EX    |
| C00659 | LGT HIGH MAST POLE 4 PR    |
| C00707 | LGT HIGH MAST POLE 5 EX    |
| C00660 | LGT HIGH MAST POLE 5 PR    |
| C00708 | LGT HIGH MAST POLE 6 EX    |
| C00661 | LGT HIGH MAST POLE 6 PR    |
| C00565 | LGT JUNCTION BOX EX        |
| C00196 | LGT JUNCTION BOX PR        |
| C00693 | LGT LIGHT UNIT 1 EX        |
| C00662 | LGT LIGHT UNIT 1 PR        |
| C00694 | LGT LIGHT UNIT 2 EX        |
| C00663 | LGT LIGHT UNIT 2 PR        |
| C00695 | LGT LIGHT UNIT 3 EX        |
| C00664 | LGT LIGHT UNIT 3 PR        |
| C00696 | LGT LIGHT UNIT 4 EX        |
| C00665 | LGT LIGHT UNIT 4 PR        |
| C00697 | LGT LIGHT UNIT 5 EX        |
| C00666 | LGT LIGHT UNIT 5 PR        |
| C00698 | LGT LIGHT UNIT TWIN 1 EX   |
| C00651 | LGT LIGHT UNIT TWIN 1 PR   |
| C00699 | LGT LIGHT UNIT TWIN 2 EX   |
| C00652 | LGT LIGHT UNIT TWIN 2 PR   |
| C00700 | LGT LIGHT UNIT TWIN 3 EX   |
| C00653 | LGT LIGHT UNIT TWIN 3 PR   |
| C00701 | LGT LIGHT UNIT TWIN 4 EX   |
| C00654 | LGT LIGHT UNIT TWIN 4 PR   |
| C00702 | LGT LIGHT UNIT TWIN 5 EX   |
| C00655 | LGT LIGHT UNIT TWIN 5 PR   |
| C00178 | LGT POWER POLE EX          |
| C00187 | LGT POWER POLE PR          |
| C00577 | LGT PULL POINT EX          |
| C00618 | LGT PULL POINT PR          |
| C00623 | LGT THAF FLOW ARROW EX     |
| C00581 | LGT TRAF FLOW ARROW PR     |
| C00709 | LGT UNDERPASS LUMINAIRE EX |
| C00669 | LGT UNDERPASS LUMINAIRE PR |
| C00762 | LS DECIDUOUS TREE          |
| C00761 | LS EVERGREEN TREE          |
| C00756 | LS HATCHING PATTERN        |
| C00757 | LS HATCHING PATTERN        |
| C00767 | LS INTER TREE EX           |
| C00594 | LS INTERMEDIATE TREE       |
| C00763 | LS MOWLINE PATTERN         |
| C00764 | LS PERENNIAL PLANTS PAT    |
| C00765 | LS SEED CL2 PAT            |



|        |                          |
|--------|--------------------------|
| C00758 | LS SEEDING CL4 PAT       |
| C00755 | LS SEEDLING TYPE 1 PAT   |
| C00766 | LS SHADE TREE EX         |
| C00593 | LS SHADE TREECODE A      |
| C00595 | LS SHRUBS CODE C OR D    |
| C00760 | LS SOD PATTERN           |
| C00112 | MAIL BOX                 |
| C00224 | MAJOR ROADS POINT EX     |
| C00171 | MARSH                    |
| C01286 | MULCH M1                 |
| C01287 | MULCH M2 STAB            |
| C01288 | MULCH M3 HYDRO           |
| C01299 | MULCH TEMPORARY          |
| C00645 | NO LEFT TURN R3 2        |
| C00646 | NO RIGHT TURN R3 1       |
| C00146 | NORTH ARROW DIST 1       |
| C00151 | NORTH ARROW DIST 2       |
| C00152 | NORTH ARROW DIST 3       |
| C00153 | NORTH ARROW DIST 4       |
| C00154 | NORTH ARROW DIST 5       |
| C00155 | NORTH ARROW DIST 6       |
| C00156 | NORTH ARROW DIST 7       |
| C00157 | NORTH ARROW DIST 8       |
| C00158 | NORTH ARROW DIST 9       |
| C00219 | NOTE GROUND DATA OMITTE  |
| C00559 | OIL PIPE UNDGND PAT EX   |
| C00562 | OIL PIPE UNDGND PAT PR   |
| C01005 | ONE WAY R6 1L            |
| C00637 | ONE WAY R6 1R            |
| C00223 | OTHER PVMT ITEM POINT EX |
| C00423 | PANELS 1                 |
| C00424 | PANELS 2                 |
| C00459 | PAVT REM ADJ             |
| C00497 | PIPE UNDERDRAIN EX       |
| C00448 | PIPE UNDERDRAIN PR       |
| C00910 | PM DBL CENTERLINE PAT EX |
| C00911 | PM DBL CENTERLINE PAT PR |
| C00906 | PM DOTTED LINES PAT EX   |
| C00907 | PM DOTTED LINES PAT PR   |
| C00768 | PM MARKR AMBR 1 W PR     |
| C00739 | PM MARKR AMBR 2 W PR     |
| C00771 | PM MARKR CRSTL 1 W PR    |
| C00584 | PM RAISED MARKING 1 EX   |
| C00585 | PM RAISED MARKING 2 EX   |
| C00586 | PM RAISED MARKING 3 EX   |

|        |                            |
|--------|----------------------------|
| C00769 | PM RAISED MARKING 3 PR     |
| C00587 | PM RAISED MARKING 4 EX     |
| C00770 | PM RAISED MARKING 4 PR     |
| C00588 | PM RAISED MARKING 5 EX     |
| C00589 | PM RAISED MARKING 6 EX     |
| C00772 | PM RAISED MARKING 6 PR     |
| C00603 | PM RR CROSSING EX          |
| C00602 | PM RR CROSSING PR          |
| C01202 | PM RUR COMB LT TRN ONLY PR |
| C01211 | PM RUR COMB RT ONLY EX     |
| C01212 | PM RUR COMB RT TRN ONLY PR |
| C01291 | PM RUR LT TRN ARROW EX     |
| C01292 | PM RUR LT TRN ARROW PR     |
| C00790 | PM RUR LT TRN ONLY EX      |
| C00792 | PM RUR LT TRN ONLY PR      |
| C01295 | PM RUR RT TRN ARROW EX     |
| C01296 | PM RUR RT TRN ARROW PR     |
| C00794 | PM RUR RT TRN ONLY EX      |
| C00796 | PM RUR RT TRN ONLY PR      |
| C01241 | PM RUR THRU ONLY EX        |
| C01242 | PM RUR THRU ONLY PR        |
| C00738 | PM SH DIAG PAT PR          |
| C00773 | PM SH DIAGONAL PAT EX      |
| C00904 | PM SKIP DASH LN PAT EX     |
| C00905 | PM SKIP DASH LN PAT PR     |
| C00908 | PM SKIP DASH WHITE PR      |
| C00909 | PM SKIP DASH YELLOW PR     |
| C00912 | PM STOP LINE PAT EX        |
| C00913 | PM STOP LINE PAT PR        |
| C00601 | PM URB COMB LT ONLY EX     |
| C01201 | PM URB COMB LT ONLY EX     |
| C00600 | PM URB COMB LT ONLY PR     |
| C01002 | PM URB COMB RT ONLY EX     |
| C01001 | PM URB COMB RT TRN ONLY PR |
| C00791 | PM URB LT TRN ARROW EX     |
| C00793 | PM URB LT TRN ARROW PR     |
| C00578 | PM URB LT TRN ONLY EX      |
| C00597 | PM URB LT TRN ONLY PR      |
| C00590 | PM URB LT TURN ONLY PR     |
| C00795 | PM URB RT TRN ARROW EX     |
| C00797 | PM URB RT TRN ARROW PR     |
| C00579 | PM URB RT TRN ONLY EX      |
| C00598 | PM URB RT TRN ONLY PR      |
| C00741 | PM URB THRU ONLY EX        |
| C00740 | PM URB THRU ONLY PR        |

|        |                          |
|--------|--------------------------|
| C00580 | PM URB TWO WAY LT TRN EX |
| C00599 | PM URB TWO WAY LT TRN PR |
| C00147 | PROF PI INDICATOR EX     |
| C00483 | PROF PI INDICATOR PR     |
| C00149 | PROF PNT INDICATOR EX    |
| C00482 | PROF PNT INDICATOR PR    |
| C00287 | PROPERTY CORNER EX       |
| C00288 | PROPERTY LINE SYMBOL     |
| C00133 | QUARTER CORNER OFFSET NW |
| C00130 | QUARTER CORNER OFFSET SE |
| C00631 | RD CONST AHD W20 1 0     |
| C00104 | RDWY DITCH FLOW EX       |
| C00478 | RDWY DITCH FLOW PR       |
| C00480 | REMOVAL HATCHING PAT     |
| C00447 | REMOVAL ITEM TIC PAT     |
| C00629 | REVERSE LEFT W1 4L       |
| C00628 | REVERSE RIGHT W1 4R      |
| C01260 | RIPRAP                   |
| C01262 | RIPRAP EX                |
| C00636 | ROAD CLOSED R11 2        |
| C00632 | ROAD CLSD AHD W20 1 0    |
| C00647 | ROAD CLSD TO TRAF R11 4  |
| C00101 | ROW CORNER MONUMENT EX   |
| C00140 | ROW CORNER MONUMENT PR   |
| C00400 | ROW DIST 1 PR            |
| C00172 | ROW MARKER EX            |
| C01105 | ROW PARCEL TABLE         |
| C00136 | ROW PATTERN              |
| C01101 | ROW SURV CERT            |
| C00221 | RR ABANDONED PATTERN     |
| C01013 | RR CANT MAST ARM EX      |
| C01014 | RR CANT MAST ARM PR      |
| C00491 | RR CONTROL BOX EX        |
| C00192 | RR CONTROL BOX PR        |
| C01103 | RR CROSSBUCK EX          |
| C01104 | RR CROSSBUCK PR          |
| C00494 | RR CROSSING GATE EX      |
| C00418 | RR CROSSING GATE PR      |
| C00495 | RR FLASHING SIGNAL EX    |
| C00434 | RR FLASHING SIGNAL PR    |
| C00333 | RR POINT                 |
| C00134 | RR TRACK PAT EX          |
| C00457 | RR TRACK PAT PR          |
| C00633 | RT LN CLSD AHD W20 R0    |
| C00122 | SAME OWNERSHIP SYMBOL    |

|        |                           |
|--------|---------------------------|
| C00137 | SANITARY SEWER EX         |
| C00932 | SANITARY SEWER PR         |
| C00433 | SAW LONG JTW TIE PAT      |
| C00935 | SECT GRANT LN PAT         |
| C00132 | SECTION CORNER SYMBOL     |
| C01265 | SEDIMENT BASIN            |
| C01275 | SEEDING CL7               |
| C01270 | SEEDING PERMANENT         |
| XSHEET | SHEET 5 SCALE 091599      |
| C00135 | SHEET COVER ENG 12 99     |
| C00123 | SHEET IDS A 20            |
| C00124 | SHEET IDS A 20            |
| C00129 | SHEET IDS D1 9 94         |
| C00116 | SHEET PLAN 09 15 99       |
| C00403 | SHEET PLAT HWAYS D1       |
| C00117 | SHEET PLNPROF 09 15 99    |
| C00404 | SHEET ROW 09 15 99        |
| C00406 | SHEET ROW PLANS 09 15 99  |
| C00429 | SIGN FLAG                 |
| C00635 | SINGLE LANE AHD           |
| C00280 | SINKHOLE PAT BROKEN       |
| C00277 | SINKHOLE PAT COMB         |
| C00278 | SINKHOLE PAT INDEX        |
| C00281 | SINKHOLE PAT INDEX DASHED |
| C00453 | SPECIAL ADJUSTMENT        |
| C00642 | STOP HERE ON RED R10 6AL  |
| C01003 | STOP HERE ON RED R10 6AR  |
| C01010 | STORM SEWER PAT EX        |
| C00933 | STORM SEWER PAT PR        |
| C00465 | STRUCTURE CLEAN           |
| C00466 | STRUCTURE FILL            |
| C00467 | STRUCTURE REMOVAL         |
| C00462 | STRUCTURE TO BE ADJUST    |
| C00470 | STRUCTURE TO BE RECONSTR  |
| C00263 | STUMP SYMBOL              |
| C00126 | SUMMIT EX                 |
| C00463 | SUMMIT PR                 |
| C00128 | SURVEY MARKER SYMBOL      |
| C00774 | SURVLOAD POINT CELL       |
| C00775 | SURVLOAD TIC CELL         |
| C00452 | SWALE PR                  |
| C00139 | TEL SPLICE BOX ABV GND    |
| C00550 | TEL UNDGND PAT EX         |
| C00552 | TEL UNDGND PAT PR         |
| C00121 | TELEPHONE POLE EX         |

|        |                           |
|--------|---------------------------|
| C00446 | TELEPHONE POLE PR         |
| C00779 | TEMP EASEMENT PR          |
| C00120 | TOWN CNTY SECT GRANT      |
| C00179 | TRAFFIC SIGN EX           |
| C00419 | TRAFFIC SIGN PR           |
| C00800 | TRANSIT LINE              |
| C00626 | TRANSITION LEFT W4 2R     |
| C00627 | TRANSITION RIGHT W4 2L    |
| C00438 | TRAVEL DETAILS TIC PAT    |
| C01285 | TREE TRUNK PROTECTION     |
| C00436 | TRVL DETAIL HATCH PAT     |
| C00789 | TS BACKPLATE EX           |
| C00788 | TS BACKPLATE PR           |
| C00610 | TS CABLE NUMBER EX        |
| C00609 | TS CABLE NUMBER PR        |
| C00510 | TS COMB MAST ARM EX       |
| C00528 | TS COMB MAST ARM PR       |
| C00513 | TS CONDUIT SPLICE EX      |
| C00531 | TS CONDUIT SPLICE PR      |
| C00571 | TS CONTROLLER EX          |
| C00189 | TS CONTROLLER PR          |
| C00505 | TS DET LOOP LARGE EX      |
| C00576 | TS DET LOOP LARGE PR      |
| C01011 | TS DET LOOP QUAD EX       |
| C01012 | TS DET LOOP QUAD PR       |
| C00573 | TS DET LOOP SMALL EX      |
| C00575 | TS DET LOOP SMALL PR      |
| C00519 | TS GALV STEEL COND PAT EX |
| C00113 | TS GULFBOX EX             |
| C00114 | TS GULFBOX PR             |
| C00173 | TS HANDHOLE EX            |
| C00181 | TS HANDHOLE PR            |
| C00567 | TS HDUTY HANDHOLE EX      |
| C00506 | TS HEAD EX                |
| C00524 | TS HEAD PR                |
| C00525 | TS HEAD W BACK PR         |
| C00507 | TS HEAD W BKPL EX         |
| C00564 | TS JUNCTION BOX EX        |
| C00481 | TS JUNCTION BOX PR        |
| C00786 | TS LT TURN GREEN EX       |
| C00613 | TS LT TURN GREEN PR       |
| C00785 | TS LT TURN YELLOW EX      |
| C00612 | TS LT TURN YELLOW PR      |
| C00512 | TS PED PUSH BUTTON EX     |
| C00530 | TS PED PUSH BUTTON PR     |

|        |                         |
|--------|-------------------------|
| C00511 | TS PED SIG HEAD EX      |
| C00529 | TS PED SIG HEAD PR      |
| C00604 | TS RACEWAY EX           |
| C00742 | TS RACEWAY PR           |
| C00177 | TS SERVICE INSTALL EX   |
| C00186 | TS SERVICE INSTALL PR   |
| C00784 | TS SIG SECT LARGE EX    |
| C00607 | TS SIG SECT LARGE PR    |
| C00783 | TS SIG SECT SMALL EX    |
| C00606 | TS SIG SECT SMALL PR    |
| C00508 | TS SIGNAL POST EX       |
| C00526 | TS SIGNAL POST PR       |
| C00509 | TS STEEL MAST ARM EX    |
| C00527 | TS STEEL MAST ARM PR    |
| C00605 | TS TRAF TEMP SIG HEAD   |
| C00936 | TS UNDGND CABLE EX      |
| C00148 | TS UNDGND CABLE PR      |
| C00516 | TS VEH DET PRIORITY EX  |
| C00534 | TS VEH DET PRIORITY PR  |
| C00518 | TS VEH DETECT MAG EX    |
| C00520 | TS VEH DETECT MAG PR    |
| C00787 | TS WALK DONT WALK EX    |
| C00615 | TS WALK DONT WALK PR    |
| C01016 | TS WALK DW SYMBOL EX    |
| C01015 | TS WALK DW SYMBOL PR    |
| C00514 | TS WOOD POLE EX         |
| C00532 | TS WOOD POLE PR         |
| C00570 | TSC CONTROLLER EX       |
| C00416 | TSC CONTROLLER PR       |
| C00901 | TSC DET LOOP LARGE EX   |
| C00903 | TSC DET LOOP LARGE PR   |
| C00900 | TSC DET LOOP SMALL EX   |
| C00902 | TSC DET LOOP SMALL PR   |
| C00545 | TSC FLASHER EX          |
| C00620 | TSC FLASHER PR          |
| C00106 | TSC HANDHOLE EX         |
| C00409 | TSC HANDHOLE PR         |
| C00566 | TSC HDUTY HANDHOLE EX   |
| C00410 | TSC HDUTY HANDHOLE PR   |
| C00166 | TSC LIGHT STANDARD EX   |
| C00442 | TSC LIGHT STANDARD PR   |
| C00745 | TSC POLYETH DUCT PAT EX |
| C00747 | TSC POLYETH DUCT PAT PR |
| C00542 | TSC PULL POINT EX       |
| C00544 | TSC RAMP METER EX       |

|        |                             |
|--------|-----------------------------|
| C00619 | TSC RAMP METER PR           |
| C00176 | TSC SERVICE INSTALL EX      |
| C00415 | TSC SERVICE INSTALL PR      |
| C00583 | TSC TRAF FLOW ARROW EX      |
| C00582 | TSC TRAF FLOW ARROW PR      |
| C00937 | TSC UNDGRD CABLE EX         |
| C00614 | TSC VEH MOVE TERM           |
| C00630 | TWO WAY TRAFFIC SIGN W6 3   |
| C00244 | UTIL AS GUY POLE EX         |
| C00242 | UTIL AS POWERLINE POLE EX   |
| C00243 | UTIL AS TELEPHONE POLE EX   |
| C00682 | UTIL BBOX WMETER VBOX EX    |
| C00691 | UTIL BBOX WMETER VBOX PR    |
| C00569 | UTIL CONTROLLER EX          |
| C00191 | UTIL CONTROLLER PR          |
| C01106 | UTIL DBLE HANDHOLE EX       |
| C01107 | UTIL DBLE HANDHOLE PR       |
| C00487 | UTIL HANDHOLE EX            |
| C00681 | UTIL HANDHOLE PR            |
| C00490 | UTIL HDUTY HANDHOLE EX      |
| C00185 | UTIL HDUTY HANDHOLE PR      |
| C00489 | UTIL JUNCTION BOX EX        |
| C00197 | UTIL JUNCTION BOX PR        |
| C00165 | UTIL LIGHT POLE EX          |
| C00195 | UTIL LIGHT POLE PR          |
| C00168 | UTIL MANHOLE VV EX          |
| C00193 | UTIL MANHOLE W PR           |
| C00356 | UTIL PIPELINE WARNING SYMBL |
| C00357 | UTIL POINT                  |
| C00119 | UTIL POWER POLE EX          |
| C00188 | UTIL POWER POLE PR          |
| C00488 | UTIL SPLICE BOX ABV GND EX  |
| C00450 | UTIL SPLICE BOX ABV GND PR  |
| EXUTIL | UTIL SYMBOL EX              |
| PRUTIL | UTIL SYMBOL PR              |
| C00164 | UTIL TRAFFIC SIGNAL EX      |
| C00402 | UTIL TRAFFIC SIGNAL PR      |
| C00680 | UTIL WATER METER EX         |
| C00241 | UTIL WIRE LINE              |
| C00472 | VALVE BOX TO BE ADJUSTED    |
| C00781 | VEGETATION LINE             |
| C00500 | VERT CURVE DATA EX          |
| C00475 | VERT CURVE DATA PR          |
| C00557 | WATER PIPE UNDGND PAT EX    |
| C00560 | WATER PIPE UNDGND PAT PR    |

|        |                       |
|--------|-----------------------|
| C00782 | WATERS EDGE LINE      |
| C00265 | WOODS BUSH PATTERN EX |
| C00180 | XSEC WATR SURF INDIC  |



## CHAPTER 9

# Numeric (By Name) Index To Cell Library

### Note:

Cells with a TSC prefix are to be used for Traffic Systems Center jobs only.  
 Cells with an AS prefix are to be used for Aerial Surveys work.  
 Cells are sized to be displayed with 1:600 plots assuming an active scale of one.  
 Sheet cells and TSC cells are listed at the end of the index.  
 Exceptions to this are noted with the cells. Cells display level = color except when noted otherwise (generally utilities).

| NAME   | DESCRIPTION              |
|--------|--------------------------|
| C00101 | ROW CORNER MONUMENT EX   |
| C00102 | DRAINAGE CATCH BASIN     |
| C00103 | HORIZ CURVE DATA EX      |
| C00104 | RDWY DITCH FLOW EX       |
| C00105 | EVERGREEN TREE EX        |
| C00107 | GUARDRAIL PAT EX         |
| C00109 | IRON PIPE SET            |
| C00110 | HEADWALL EX              |
| C00111 | LEVEE OR NOISE BARRIER   |
| C00112 | MAIL BOX                 |
| C00113 | TS GULFBOX EX            |
| C00114 | TS GULFBOX PR            |
| C00115 | ALI PI INDICATOR EX      |
| C00118 | EOP PNT INDICATOR EX     |
| C00119 | UTIL POWER POLE EX       |
| C00120 | TOWN CNTY SECT GRANT     |
| C00121 | TELEPHONE POLE EX        |
| C00122 | SAME OWNERSHIP SYMBOL    |
| C00125 | ADVERTISING SIGN         |
| C00126 | SUMMIT EX                |
| C00127 | DASHED PROPERTY LINE     |
| C00128 | SURVEY MARKER SYMBOL     |
| C00130 | QUARTER CORNER OFFSET SE |

|        |                          |
|--------|--------------------------|
| C00131 | DR PROF WTR SURF INDIC   |
| C00132 | SECTION CORNER SYMBOL    |
| C00133 | QUARTER CORNER OFFSET NW |
| C00134 | RR TRACK PAT EX          |
| C00136 | ROW PATTERN              |
| C00137 | SANITARY SEWER EX        |
| C00138 | IRON PIPE FOUND          |
| C00139 | TEL SPLICE BOX ABV GND   |
| C00140 | ROW CORNER MONUMENT PR   |
| C00143 | CULVERT END SECTION      |
| C00145 | ARROW FILLED             |
| C00146 | NORTH ARROW DIST 1       |
| C00147 | PROF PI INDICATOR EX     |
| C00148 | TS UNDGND CABLE PR       |
| C00149 | PROF PNT INDICATOR EX    |
| C00150 | DRAINAGE MANHOLE EX      |
| C00151 | NORTH ARROW DIST 2       |
| C00152 | NORTH ARROW DIST 3       |
| C00153 | NORTH ARROW DIST 4       |
| C00154 | NORTH ARROW DIST 5       |
| C00155 | NORTH ARROW DIST 6       |
| C00156 | NORTH ARROW DIST 7       |
| C00157 | NORTH ARROW DIST 8       |
| C00158 | NORTH ARROW DIST 9       |
| C00163 | DITCH CHECK EX           |
| C00164 | UTIL TRAFFIC SIGNAL EX   |
| C00165 | UTIL LIGHT POLE EX       |
| C00167 | FIRE HYDRANT EX          |
| C00168 | UTIL MANHOLE VV EX       |
| C00169 | INLET EX                 |
| C00170 | DECIDUOUS TREE EX        |
| C00171 | MARSH                    |
| C00172 | ROW MARKER EX            |
| C00173 | TS HANDHOLE EX           |
| C00174 | LGT HANDHOLE EX          |
| C00175 | ALI POINT INDICATOR EX   |
| C00177 | TS SERVICE INSTALL EX    |
| C00178 | LGT POWER POLE EX        |
| C00179 | TRAFFIC SIGN EX          |
| C00180 | XSEC WATR SURF INDIC     |
| C00181 | TS HANDHOLE PR           |
| C00182 | LGT HANDHOLE PR          |
| C00183 | LGT HDUTY HANDHOLE PR    |
| C00184 | LGT HDUTY HANDHOLE PR    |
| C00185 | UTIL HDUTY HANDHOLE PR   |

|        |                             |
|--------|-----------------------------|
| C00186 | TS SERVICE INSTALL PR       |
| C00187 | LGT POWER POLE PR           |
| C00188 | UTIL POWER POLE PR          |
| C00189 | TS CONTROLLER PR            |
| C00190 | LGT CONTROLLER PR           |
| C00191 | UTIL CONTROLLER PR          |
| C00192 | RR CONTROL BOX PR           |
| C00193 | UTIL MANHOLE W PR           |
| C00194 | DRAINAGE MANHOLE PR         |
| C00195 | UTIL LIGHT POLE PR          |
| C00196 | LGT JUNCTION BOX PR         |
| C00197 | UTIL JUNCTION BOX PR        |
| C00198 | EOP PNT INDICATOR PR        |
| C00199 | ALI POINT INDICATOR PR      |
| C00201 | AS HORIZ CONTROL STATION    |
| C00202 | AS HORIZ CONTROL TARGET     |
| C00203 | AS HORIZ PICTURE TIE        |
| C00204 | AS VERTICAL CONTROL STATION |
| C00205 | AS VERTICAL PICTURE TIE     |
| C00207 | AS PRINCIPAL POINT          |
| C00216 | GUARDRAIL POST EX           |
| C00219 | NOTE GROUND DATA OMITTE     |
| C00221 | RR ABANDONED PATTERN        |
| C00223 | OTHER PVMT ITEM POINT EX    |
| C00224 | MAJOR ROADS POINT EX        |
| C00233 | FIELD LINE SYMBOL           |
| C00234 | LABEL SWIMMING POOL         |
| C00237 | LABEL GOLF GREEN            |
| C00238 | LABEL SAND TRAP             |
| C00239 | CULTURE POINT               |
| C00241 | UTIL WIRE LINE              |
| C00242 | UTIL AS POWERLINE POLE EX   |
| C00243 | UTIL AS TELEPHONE POLE EX   |
| C00244 | UTIL AS GUY POLE EX         |
| C00245 | AS UTIL TRANSMISSION TOWER  |
| C00256 | LABEL PIPELINE WARNING      |
| C00257 | LABEL PIPELINE WARNING      |
| C00263 | STUMP SYMBOL                |
| C00264 | LABEL SCRUB                 |
| C00265 | WOODS BUSH PATTERN EX       |
| C00273 | AS WATER POINT              |
| C00277 | SINKHOLE PAT COMB           |
| C00278 | SINKHOLE PAT INDEX          |
| C00280 | SINKHOLE PAT BROKEN         |
| C00281 | SINKHOLE PAT INDEX DASHED   |

|        |                             |
|--------|-----------------------------|
| C00283 | AS SPOT EL SYMBOL           |
| C00285 | LABEL ROW                   |
| C00287 | PROPERTY CORNER EX          |
| C00288 | PROPERTY LINE SYMBOL        |
| C00290 | AS TITLE BOX 9 9 94         |
| C00291 | AS NOTE NGVD 29             |
| C00292 | AS NOTE NAVD 88             |
| C00293 | AS NOTE NAD 27 GRID         |
| C00294 | AS NORTH ARROW              |
| C00295 | AS SCALE BAR                |
| C00301 | AS NOTE NAD 83 GRID         |
| C00302 | AS SHEET INDEX RIGHT        |
| C00303 | AS SHEET INDEX LEFT         |
| C00309 | AS NOTE BUILDING CLASS      |
| C00312 | AS NOTE DISCLAIMER          |
| C00313 | AS SHEET INDEX VERTICAL     |
| C00322 | AS NOTE BRIDGE              |
| C00333 | RR POINT                    |
| C00345 | AS GRID TICK                |
| C00356 | UTIL PIPELINE WARNING SYMBL |
| C00357 | UTIL POINT                  |
| C00361 | DISAPPEARING DITCH          |
| C00383 | AS TEST X                   |
| C00391 | AS DIST MAPING GENRL LEGEND |
| C00392 | LABEL FLAG POLE             |
| C00400 | ROW DIST 1 PR               |
| C00401 | EASEMENT PR                 |
| C00402 | UTIL TRAFFIC SIGNAL PR      |
| C00408 | ALI PI INDICATOR PR         |
| C00418 | RR CROSSING GATE PR         |
| C00419 | TRAFFIC SIGN PR             |
| C00420 | GUARDRAIL PAT PR            |
| C00421 | CORR MED AREA PAT PR        |
| C00422 | DIRECTION OF TRAFFIC        |
| C00423 | PANELS 1                    |
| C00424 | PANELS 2                    |
| C00425 | BARRICADES W EDGE LINE      |
| C00426 | BARRICADES TYPE 1 OR 2 DIA  |
| C00427 | BARRICADE TYPE II           |
| C00428 | FLASHING LIGHT              |
| C00429 | SIGN FLAG                   |
| C00430 | BARRICADES TYPE III         |
| C00431 | BIT TAPER PATTERN           |
| C00432 | DRIVEWAY STABILIZED PAT PR  |
| C00433 | SAW LONG JTW TIE PAT        |

|        |                            |
|--------|----------------------------|
| C00434 | RR FLASHING SIGNAL PR      |
| C00435 | BIT SHOULDER AREA PAT      |
| C00436 | TRVL DETAIL HATCH PAT      |
| C00437 | KEYED LONG JT W TIE PAT    |
| C00438 | TRAVEL DETAILS TIC PAT     |
| C00439 | AGG SHOULDER PATTERN       |
| C00440 | KEYED LONG JT PATTERN      |
| C00441 | FIRE HYDRANT PR            |
| C00443 | INLET PR                   |
| C00445 | CATCH BASIN PR             |
| C00446 | TELEPHONE POLE PR          |
| C00447 | REMOVAL ITEM TIC PAT       |
| C00448 | PIPE UNDERDRAIN PR         |
| C00450 | UTIL SPLICE BOX ABV GND PR |
| C00452 | SWALE PR                   |
| C00453 | SPECIAL ADJUSTMENT         |
| C00457 | RR TRACK PAT PR            |
| C00458 | DITCH CHECK PR             |
| C00459 | PAVT REM ADJ               |
| C00460 | FRAME AND GRATE ADJUST     |
| C00461 | FRAME AND LID ADJUST       |
| C00462 | STRUCTURE TO BE ADJUST     |
| C00463 | SUMMIT PR                  |
| C00464 | ITEM TO BE ABANDONED       |
| C00465 | STRUCTURE CLEAN            |
| C00466 | STRUCTURE FILL             |
| C00467 | STRUCTURE REMOVAL          |
| C00468 | ITEM TO BE MOVED           |
| C00469 | ITEM TO BE RELOCATED       |
| C00470 | STRUCTURE TO BE RECONSTR   |
| C00471 | DOMESTIC SRVC BOX ADJ      |
| C00472 | VALVE BOX TO BE ADJUSTED   |
| C00475 | VERT CURVE DATA PR         |
| C00476 | CULVERT END SECTION PR     |
| C00477 | HEADWALL PR                |
| C00478 | RDWY DITCH FLOW PR         |
| C00480 | REMOVAL HATCHING PAT       |
| C00481 | TS JUNCTION BOX PR         |
| C00482 | PROF PNT INDICATOR PR      |
| C00483 | PROF PI INDICATOR PR       |
| C00485 | HORIZ CURVE DATA PR        |
| C00486 | CL NO TIC PAT EX           |
| C00487 | UTIL HANDHOLE EX           |
| C00488 | UTIL SPLICE BOX ABV GND EX |
| C00489 | UTIL JUNCTION BOX EX       |

|        |                            |
|--------|----------------------------|
| C00490 | UTIL HDUTY HANDHOLE EX     |
| C00491 | RR CONTROL BOX EX          |
| C00492 | CL PATTERN PR              |
| C00493 | FENCE PATTERN EX           |
| C00494 | RR CROSSING GATE EX        |
| C00495 | RR FLASHING SIGNAL EX      |
| C00496 | CORR MED AREA PAT EX       |
| C00497 | PIPE UNDERDRAIN EX         |
| C00500 | VERT CURVE DATA EX         |
| C00505 | TS DET LOOP LARGE EX       |
| C00506 | TS HEAD EX                 |
| C00507 | TS HEAD W BKPL EX          |
| C00508 | TS SIGNAL POST EX          |
| C00509 | TS STEEL MAST ARM EX       |
| C00510 | TS COMB MAST ARM EX        |
| C00511 | TS PED SIG HEAD EX         |
| C00512 | TS PED PUSH BUTTON EX      |
| C00513 | TS CONDUIT SPLICE EX       |
| C00514 | TS WOOD POLE EX            |
| C00516 | TS VEH DET PRIORITY EX     |
| C00518 | TS VEH DETECT MAG EX       |
| C00519 | TS GALV STEEL COND PAT EX  |
| C00520 | TS VEH DETECT MAG PR       |
| C00524 | TS HEAD PR                 |
| C00525 | TS HEAD W BACK PR          |
| C00526 | TS SIGNAL POST PR          |
| C00527 | TS STEEL MAST ARM PR       |
| C00528 | TS COMB MAST ARM PR        |
| C00529 | TS PED SIG HEAD PR         |
| C00530 | TS PED PUSH BUTTON PR      |
| C00531 | TS CONDUIT SPLICE PR       |
| C00532 | TS WOOD POLE PR            |
| C00534 | TS VEH DET PRIORITY PR     |
| C00550 | TEL UNDGND PAT EX          |
| C00551 | ELECTRIC UNDGND PAT EX     |
| C00552 | TEL UNDGND PAT PR          |
| C00553 | ELEC UNDGND PAT PR         |
| C00554 | CENTERLINE BREAK CIRCLE PR |
| C00555 | CENTERLINE STATION TICK PR |
| C00557 | WATER PIPE UNDGND PAT EX   |
| C00558 | GAS PIPE UNDGND PAT EX     |
| C00559 | OIL PIPE UNDGND PAT EX     |
| C00560 | WATER PIPE UNDGND PAT PR   |
| C00561 | GAS PIPE UNDGND PAT PR     |
| C00562 | OIL PIPE UNDGND PAT PR     |

|        |                          |
|--------|--------------------------|
| C00564 | TS JUNCTION BOX EX       |
| C00565 | LGT JUNCTION BOX EX      |
| C00567 | TS HDUTY HANDHOLE EX     |
| C00568 | LGT HDUTY HANDHOLE EX    |
| C00569 | UTIL CONTROLLER EX       |
| C00571 | TS CONTROLLER EX         |
| C00572 | LGT CONTROLLER EX        |
| C00573 | TS DET LOOP SMALL EX     |
| C00575 | TS DET LOOP SMALL PR     |
| C00576 | TS DET LOOP LARGE PR     |
| C00577 | LGT PULL POINT EX        |
| C00578 | PM URB LT TRN ONLY EX    |
| C00579 | PM URB RT TRN ONLY EX    |
| C00580 | PM URB TWO WAY LT TRN EX |
| C00581 | LGT TRAF FLOW ARROW PR   |
| C00584 | PM RAISED MARKING 1 EX   |
| C00585 | PM RAISED MARKING 2 EX   |
| C00586 | PM RAISED MARKING 3 EX   |
| C00587 | PM RAISED MARKING 4 EX   |
| C00588 | PM RAISED MARKING 5 EX   |
| C00589 | PM RAISED MARKING 6 EX   |
| C00590 | PM URB LT TURN ONLY PR   |
| C00593 | LS SHADE TREECODE A      |
| C00594 | LS INTERMEDIATE TREE     |
| C00595 | LS SHRUBS CODE C OR D    |
| C00596 | LEGEND LANDSCAPING       |
| C00597 | PM URB LT TRN ONLY PR    |
| C00598 | PM URB RT TRN ONLY PR    |
| C00599 | PM URB TWO WAY LT TRN PR |
| C00600 | PM URB COMB LT ONLY PR   |
| C00601 | PM URB COMB LT ONLY EX   |
| C00602 | PM RR CROSSING PR        |
| C00603 | PM RR CROSSING EX        |
| C00604 | TS RACEWAY EX            |
| C00605 | TS TRAF TEMP SIG HEAD    |
| C00606 | TS SIG SECT SMALL PR     |
| C00607 | TS SIG SECT LARGE PR     |
| C00609 | TS CABLE NUMBER PR       |
| C00610 | TS CABLE NUMBER EX       |
| C00612 | TS LT TURN YELLOW PR     |
| C00613 | TS LT TURN GREEN PR      |
| C00615 | TS WALK DONT WALK PR     |
| C00616 | LEGEND TS PR             |
| C00617 | LEGEND TS EX             |
| C00618 | LGT PULL POINT PR        |

|        |                            |
|--------|----------------------------|
| C00621 | LGT ELECTRICAL GND EX      |
| C00622 | LGT ELECTRICAL GND PR      |
| C00623 | LGT THAF FLOW ARROW EX     |
| C00626 | TRANSITION LEFT W4 2R      |
| C00627 | TRANSITION RIGHT W4 2L     |
| C00628 | REVERSE RIGHT W1 4R        |
| C00629 | REVERSE LEFT W1 4L         |
| C00630 | TWO WAY TRAFFIC SIGN W6 3  |
| C00631 | RD CONST AHD W20 1 0       |
| C00632 | ROAD CLSD AHD W20 1 0      |
| C00633 | RT LN CLSD AHD W20 R0      |
| C00634 | LFT LN CLSD AHD W20 5L     |
| C00635 | SINGLE LANE AHD            |
| C00636 | ROAD CLOSED R11 2          |
| C00637 | ONE WAY R6 1R              |
| C00638 | DETOUR M4 10R 0            |
| C00639 | LARGE ARROW TWO WAY W1 7 0 |
| C00640 | LARGE ARROW ONE WAY W1 6 0 |
| C00641 | LFT TRN LANE R3 L100       |
| C00642 | STOP HERE ON RED R10 6AL   |
| C00643 | KEEP LEFT R47AL            |
| C00644 | KEEP RIGHT R47 AR          |
| C00645 | NO LEFT TURN R3 2          |
| C00646 | NO RIGHT TURN R3 1         |
| C00647 | ROAD CLSD TO TRAF R11 4    |
| C00648 | DETOUR AHD W20 2           |
| C00649 | KEEP LEFT R47BL            |
| C00650 | KEEP RIGHT R47BR           |
| C00651 | LGT LIGHT UNIT TWIN 1 PR   |
| C00652 | LGT LIGHT UNIT TWIN 2 PR   |
| C00653 | LGT LIGHT UNIT TWIN 3 PR   |
| C00654 | LGT LIGHT UNIT TWIN 4 PR   |
| C00655 | LGT LIGHT UNIT TWIN 5 PR   |
| C00656 | LGT HIGH MAST POLE 1 PR    |
| C00657 | LGT HIGH MAST POLE 2 PR    |
| C00658 | LGT HIGH MAST POLE 3 PR    |
| C00659 | LGT HIGH MAST POLE 4 PR    |
| C00660 | LGT HIGH MAST POLE 5 PR    |
| C00661 | LGT HIGH MAST POLE 6 PR    |
| C00662 | LGT LIGHT UNIT 1 PR        |
| C00663 | LGT LIGHT UNIT 2 PR        |
| C00664 | LGT LIGHT UNIT 3 PR        |
| C00665 | LGT LIGHT UNIT 4 PR        |
| C00666 | LGT LIGHT UNIT 5 PR        |
| C00668 | LEGEND LGT WIRE DIA PR     |



|        |                            |
|--------|----------------------------|
| C00669 | LGT UNDERPASS LUMINAIRE PR |
| C00670 | LGT FOUND A OR C PR        |
| C00671 | LGT COMB MAST ARM PR       |
| C00673 | CONDUIT PR                 |
| C00677 | CBL IN DCT W GND 1 PR      |
| C00680 | UTIL WATER METER EX        |
| C00681 | UTIL HANDHOLE PR           |
| C00682 | UTIL BBOX WMETER VBOX EX   |
| C00683 | BURIED CABLE PAT 1 PR      |
| C00687 | BURIED CABLE PAT 1 PR      |
| C00691 | UTIL BBOX WMETER VBOX PR   |
| C00692 | LGT COMB MAST ARM EX       |
| C00693 | LGT LIGHT UNIT 1 EX        |
| C00694 | LGT LIGHT UNIT 2 EX        |
| C00695 | LGT LIGHT UNIT 3 EX        |
| C00696 | LGT LIGHT UNIT 4 EX        |
| C00697 | LGT LIGHT UNIT 5 EX        |
| C00698 | LGT LIGHT UNIT TWIN 1 EX   |
| C00699 | LGT LIGHT UNIT TWIN 2 EX   |
| C00700 | LGT LIGHT UNIT TWIN 3 EX   |
| C00701 | LGT LIGHT UNIT TWIN 4 EX   |
| C00702 | LGT LIGHT UNIT TWIN 5 EX   |
| C00703 | LGT HIGH MAST POLE 1 EX    |
| C00704 | LGT HIGH MAST POLE 2 EX    |
| C00705 | LGT HIGH MAST POLE 3 EX    |
| C00706 | LGT HIGH MAST POLE 4 EX    |
| C00707 | LGT HIGH MAST POLE 5 EX    |
| C00708 | LGT HIGH MAST POLE 6 EX    |
| C00709 | LGT UNDERPASS LUMINAIRE EX |
| C00710 | LGT FOUND A OR C EX        |
| C00718 | CBL IN DCT W GND 1 EX      |
| C00722 | CBL IN DCT W GND 1 EX      |
| C00726 | CBL IN DCT W GND 1 EX      |
| C00730 | CBL IN DCT WO GND 1 EX     |
| C00738 | PM SH DIAG PAT PR          |
| C00739 | PM MARKR AMBR 2 W PR       |
| C00740 | PM URB THRU ONLY PR        |
| C00741 | PM URB THRU ONLY EX        |
| C00742 | TS RACEWAY PR              |
| C00751 | CBL IN DCT WO GND 1 PR     |
| C00755 | LS SEEDLING TYPE 1 PAT     |
| C00756 | LS HATCHING PATTERN        |
| C00757 | LS HATCHING PATTERN        |
| C00758 | LS SEEDING CL4 PAT         |
| C00760 | LS SOD PATTERN             |

|        |                         |
|--------|-------------------------|
| C00761 | LS EVERGREEN TREE       |
| C00762 | LS DECIDUOUS TREE       |
| C00763 | LS MOWLINE PATTERN      |
| C00764 | LS PERENNIAL PLANTS PAT |
| C00765 | LS SEED CL2 PAT         |
| C00766 | LS SHADE TREE EX        |
| C00767 | LS INTER TREE EX        |
| C00768 | PM MARKR AMBR 1 W PR    |
| C00769 | PM RAISED MARKING 3 PR  |
| C00770 | PM RAISED MARKING 4 PR  |
| C00771 | PM MARKR CRSTL 1 W PR   |
| C00772 | PM RAISED MARKING 6 PR  |
| C00773 | PM SH DIAGONAL PAT EX   |
| C00774 | SURVLOAD POINT CELL     |
| C00775 | SURVLOAD TIC CELL       |
| C00776 | EARTHWORKS BALANCE PNT  |
| C00777 | EARTHWORKS BGN END PNT  |
| C00778 | EASEMENT EX             |
| C00779 | TEMP EASEMENT PR        |
| C00780 | BIT REMOVAL AREA        |
| C00781 | VEGETATION LINE         |
| C00782 | WATERS EDGE LINE        |
| C00783 | TS SIG SECT SMALL EX    |
| C00784 | TS SIG SECT LARGE EX    |
| C00785 | TS LT TURN YELLOW EX    |
| C00786 | TS LT TURN GREEN EX     |
| C00787 | TS WALK DONT WALK EX    |
| C00788 | TS BACKPLATE PR         |
| C00789 | TS BACKPLATE EX         |
| C00790 | PM RUR LT TRN ONLY EX   |
| C00791 | PM URB LT TRN ARROW EX  |
| C00792 | PM RUR LT TRN ONLY PR   |
| C00793 | PM URB LT TRN ARROW PR  |
| C00794 | PM RUR RT TRN ONLY EX   |
| C00795 | PM URB RT TRN ARROW EX  |
| C00796 | PM RUR RT TRN ONLY PR   |
| C00797 | PM URB RT TRN ARROW PR  |
| C00798 | DRAINAGE FLOW LINE EX   |
| C00799 | DRAINAGE FLOW LINE PR   |
| C00800 | TRANSIT LINE            |
| C00904 | PM SKIP DASH LN PAT EX  |
| C00905 | PM SKIP DASH LN PAT PR  |
| C00906 | PM DOTTED LINES PAT EX  |
| C00907 | PM DOTTED LINES PAT PR  |
| C00908 | PM SKIP DASH WHITE PR   |

|        |                             |
|--------|-----------------------------|
| C00909 | PM SKIP DASH YELLOW PR      |
| C00910 | PM DBL CENTERLINE PAT EX    |
| C00911 | PM DBL CENTERLINE PAT PR    |
| C00912 | PM STOP LINE PAT EX         |
| C00913 | PM STOP LINE PAT PR         |
| C00932 | SANITARY SEWER PR           |
| C00933 | STORM SEWER PAT PR          |
| C00934 | CONDUIT EX                  |
| C00935 | SECT GRANT LN PAT           |
| C00936 | TS UNDGND CABLE EX          |
| C01001 | PM URB COMB RT TRN ONLY PR  |
| C01002 | PM URB COMB RT ONLY EX      |
| C01003 | STOP HERE ON RED R10 6AR    |
| C01004 | DETOUR M4 10L 0             |
| C01005 | ONE WAY R6 1L               |
| C01006 | BURIED CABLE FIB OPT PAT EX |
| C01007 | BURIED CABLE FIB OPT PAT PR |
| C01008 | BURIED CABLE TV PAT EX      |
| C01009 | BURIED CABLE TV PAT PR      |
| C01010 | STORM SEWER PAT EX          |
| C01011 | TS DET LOOP QUAD EX         |
| C01012 | TS DET LOOP QUAD PR         |
| C01013 | RR CANT MAST ARM EX         |
| C01014 | RR CANT MAST ARM PR         |
| C01015 | TS WALK DW SYMBOL PR        |
| C01016 | TS WALK DW SYMBOL EX        |
| C01101 | ROW SURV CERT               |
| C01102 | GRAPHIC SCALE DUAL          |
| C01103 | RR CROSSBUCK EX             |
| C01104 | RR CROSSBUCK PR             |
| C01105 | ROW PARCEL TABLE            |
| C01106 | UTIL DBLE HANDHOLE EX       |
| C01107 | UTIL DBLE HANDHOLE PR       |
| C01201 | PM URB COMB LT ONLY EX      |
| C01202 | PM RUR COMB LT TRN ONLY PR  |
| C01211 | PM RUR COMB RT ONLY EX      |
| C01212 | PM RUR COMB RT TRN ONLY PR  |
| C01215 | DITCH CHECK TEMPORARY       |
| C01220 | EROSION CONTROL BLANKET     |
| C01225 | FAB. FRMD. CONC. MAT        |
| C01235 | FIBER MAT                   |
| C01240 | INLET AND PIPE PROTECTION   |
| C01241 | PM RUR THRU ONLY EX         |
| C01242 | PM RUR THRU ONLY PR         |
| C01260 | RIPRAP                      |

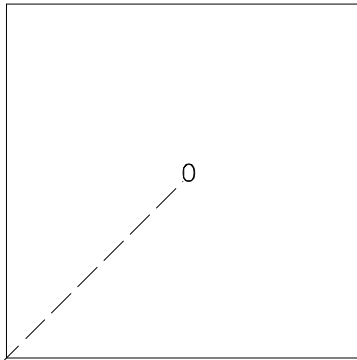
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|--------|--------------------------|
| C01262 | RIPRAP EX                |
| C01265 | SEDIMENT BASIN           |
| C01270 | SEEDING PERMANENT        |
| C01275 | SEEDING CL7              |
| C01285 | TREE TRUNK PROTECTION    |
| C01286 | MULCH M1                 |
| C01287 | MULCH M2 STAB            |
| C01288 | MULCH M3 HYDRO           |
| C01291 | PM RUR LT TRN ARROW EX   |
| C01292 | PM RUR LT TRN ARROW PR   |
| C01295 | PM RUR RT TRN ARROW EX   |
| C01296 | PM RUR RT TRN ARROW PR   |
| C01299 | MULCH TEMPORARY          |
| EXUTIL | UTIL SYMBOL EX           |
| PRUTIL | UTIL SYMBOL PR           |
| C00116 | SHEET PLAN 09 15 99      |
| C00117 | SHEET PLNPROF 09 15 99   |
| C00123 | SHEET IDS A 20           |
| C00124 | SHEET IDS A 20           |
| C00129 | SHEET IDS D1 9 94        |
| C00135 | SHEET COVER ENG 12 99    |
| C00403 | SHEET PLAT HWAYS D1      |
| C00404 | SHEET ROW 09 15 99       |
| C00406 | SHEET ROW PLANS 09 15 99 |
| XSHEET | SHEET 5 SCALE 091599     |
| C00106 | TSC HANDHOLE EX          |
| C00166 | TSC LIGHT STANDARD EX    |
| C00176 | TSC SERVICE INSTALL EX   |
| C00409 | TSC HANDHOLE PR          |
| C00410 | TSC HDUTY HANDHOLE PR    |
| C00415 | TSC SERVICE INSTALL PR   |
| C00416 | TSC CONTROLLER PR        |
| C00442 | TSC LIGHT STANDARD PR    |
| C00542 | TSC PULL POINT EX        |
| C00544 | TSC RAMP METER EX        |
| C00545 | TSC FLASHER EX           |
| C00566 | TSC HDUTY HANDHOLE EX    |
| C00570 | TSC CONTROLLER EX        |
| C00582 | TSC TRAF FLOW ARROW PR   |
| C00583 | TSC TRAF FLOW ARROW EX   |
| C00614 | TSC VEH MOVE TERM        |
| C00619 | TSC RAMP METER PR        |
| C00620 | TSC FLASHER PR           |
| C00745 | TSC POLYETH DUCT PAT EX  |
| C00747 | TSC POLYETH DUCT PAT PR  |

|        |                       |
|--------|-----------------------|
| C00900 | TSC DET LOOP SMALL EX |
| C00901 | TSC DET LOOP LARGE EX |
| C00902 | TSC DET LOOP SMALL PR |
| C00903 | TSC DET LOOP LARGE PR |
| C00937 | TSC UNDGRD CABLE EX   |

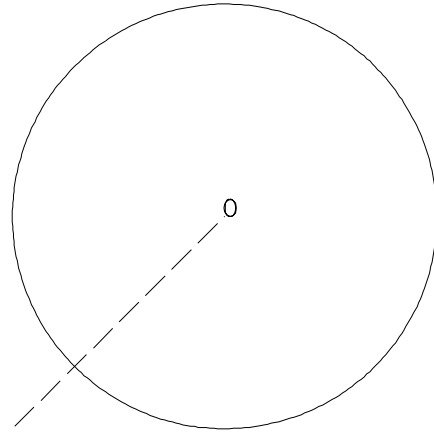
## CHAPTER 10

# Cell Library

Name: C00101  
 ROW CORNER MONUMENT PR  
 LV: 40  
 CO: 40  
 WT: 0  
 STG. MGR. GROUP - Right of Way PR



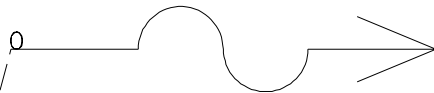
Name: C00102  
 DRAINAGE CATCH BASIN EX  
 LV: 37  
 CO: 37  
 WT: 0  
 STG. MGR. GROUP - Drainage EX



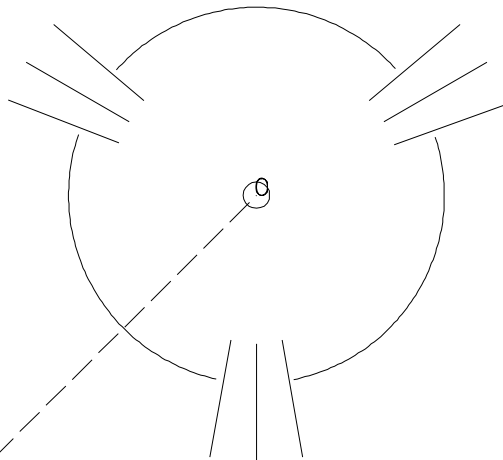
Name: C00103  
 HORIZ CURVE DATA EX  
 LV: 20  
 CO: 20  
 WT: 0  
 STG. MGR. GROUP - Alignment Notes EX

0 CURVE  
 / P.I. STA=  
 / Δ=  
 D=  
 R=  
 T=  
 L=  
 E=  
 e=  
 T.R.=  
 S.E. RUN=  
 P.C. STA=  
 P.T. STA=

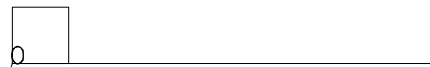
Name: C00104  
 RDWY DITCH FLOW EX  
 LV: 37  
 CO: 37  
 WT: 0  
 STG. MGR. GROUP - Drainage EX



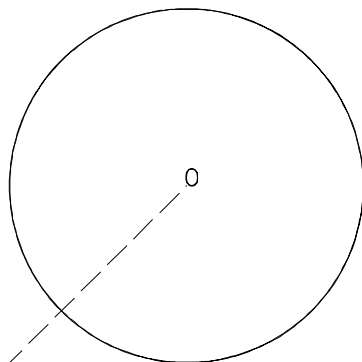
Name: C00105  
EVERGREEN TREE EX  
LV: 4  
CO: 4  
WT: 0  
STG. MGR. GROUP - Vegetation



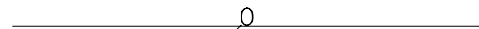
Name: C00107  
GUARDRAIL PAT EX  
LV: 28  
CO: 28  
WT: 1  
STG. MGR. GROUP - Roadway Plan EX



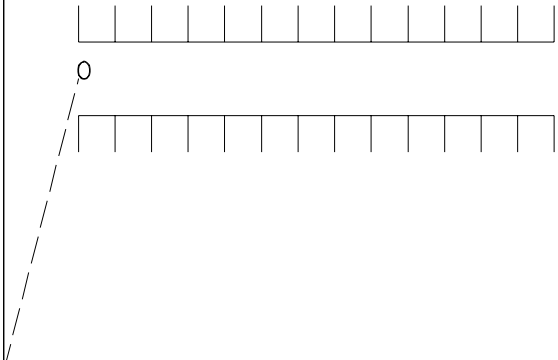
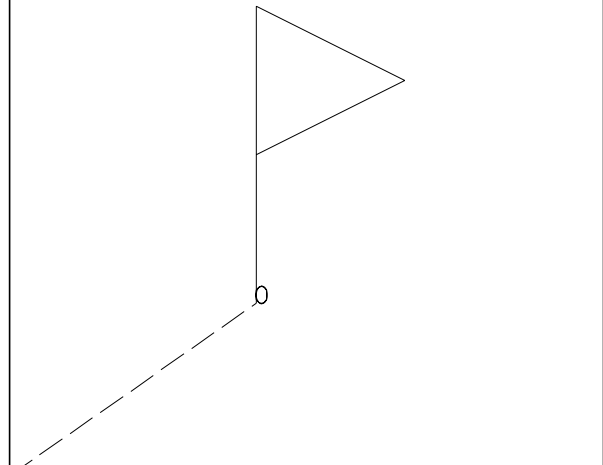
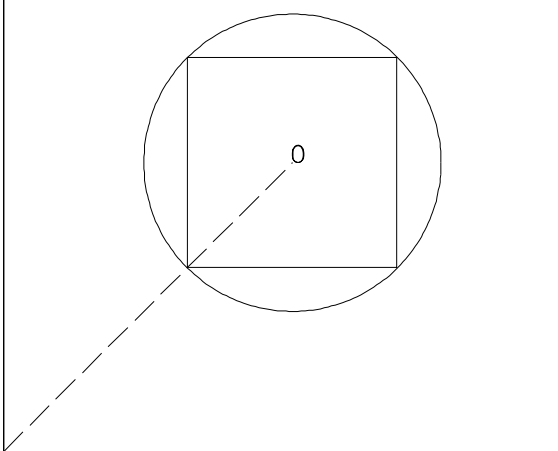
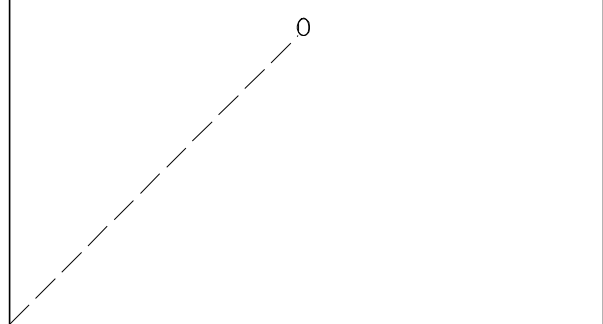
Name: C00109  
IRON PIPE SET  
LV: 12  
CO: 12  
WT: 2  
STG. MGR. GROUP - Boundaries

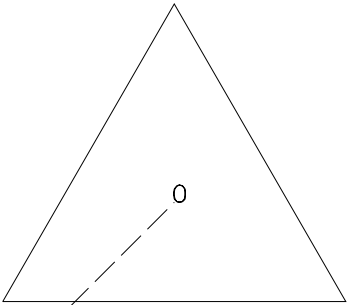
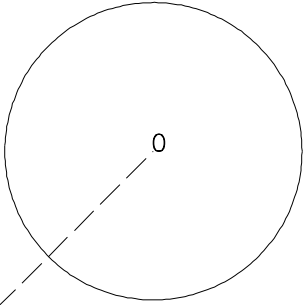
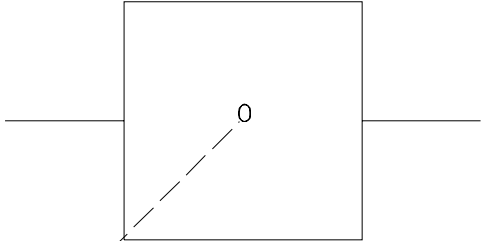



Name: C00110  
HEADWALL EX  
LV: 37  
CO: 37  
WT: 0  
STG. MGR. GROUP - Drainage EX

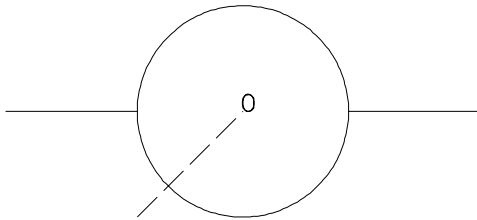




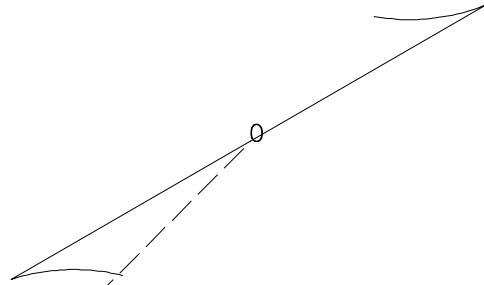
|  |   |
|--|---|
| <p>Name: C00111<br/>LEVEE OR NOISE BARRIER<br/>LV: 8<br/>CO: 8<br/>WT: 0<br/>STG. MGR. GROUP - Non-Highway Improvements</p>  | <p>Name: C00112<br/>MAIL BOX<br/>LV: 8<br/>CO: 8<br/>WT: 0<br/>STG. MGR. GROUP - Non-Highway Improvements</p>      |
| <p>Name: C00113<br/>TS GULFBOX EX<br/>LV: 11<br/>CO: 11<br/>WT: 0<br/>STG. MGR. GROUP - Traf. Signal Plan EX</p>            | <p>Name: C00114<br/>TS GULFBOX PR<br/>LV: 13<br/>CO: 13<br/>WT: 1<br/>STG. MGR. GROUP - Traf. Signal Plan PR</p>  |

|   |   |
|---|---|
| <p>Name: C00115<br/>ALI PI INDICATOR EX<br/>LV: 2<br/>CO: 2<br/>WT: 0<br/>STG. MGR. GROUP - Alignments EX</p>    | <p>Name: C00118<br/>EOP PNT INDICATOR EX<br/>LV: 27<br/>CO: 27<br/>WT: 0<br/>STG. MGR. GROUP - Roadway Plan EX</p>  |
| <p>Name: C00119<br/>UTIL POWER POLE EX<br/>LV: 14<br/>CO: 14<br/>WT: 0<br/>STG. MGR. GROUP - Utilities EX</p>  | <p>Name: C00120<br/>TOWN CNTY SECT GRANT<br/>LV: 10<br/>CO: 10<br/>WT: 0<br/>STG. MGR. GROUP - Boundaries</p>     |

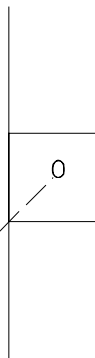
Name: C00121  
TELEPHONE POLE EX  
LV: 14  
CO: 14  
WT: 0  
STG. MGR. GROUP - Utilities EX



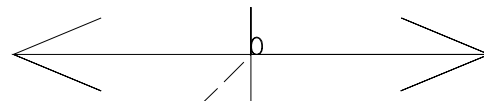
Name: C00122  
SAME OWNERSHIP SYMBOL  
LV: 12  
CO: 12  
WT: 0  
STG. MGR. GROUP - Boundaries



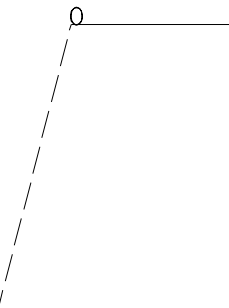
Name: C00125  
ADVERTISING SIGN  
LV: 8  
CO: 8  
WT: 0  
STG. MGR. GROUP - Non-Highway Improvements



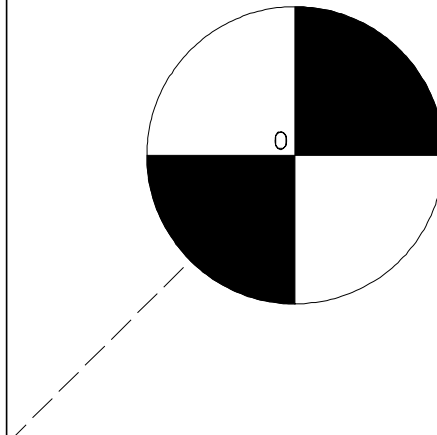
Name: C00126  
SUMMIT EX  
LV: 37  
CO: 37  
WT: 0  
STG. MGR. GROUP - Drainage EX



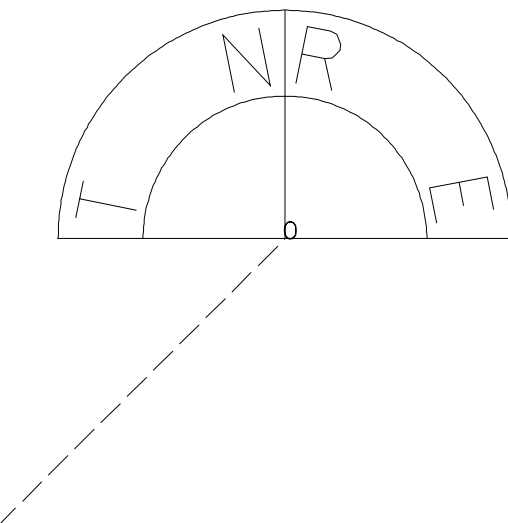
Name: C00127  
 DASHED PROPERTY LINE  
 LV: 12  
 CO: 12  
 WT: 0  
 STG. MGR. GROUP - Boundaries



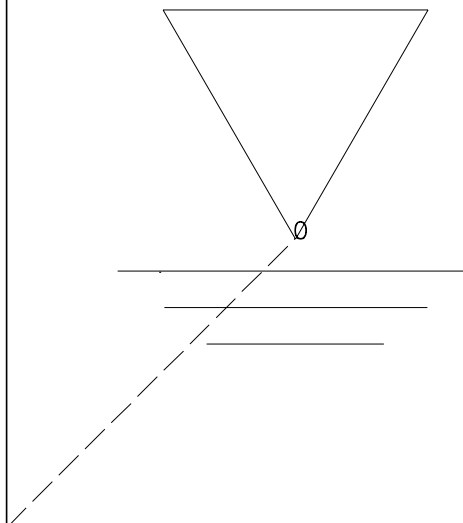
Name: C00128  
 SURVEY MARKER SYMBOL  
 LV: 12  
 CO: 12  
 WT: 0  
 STG. MGR. GROUP - Boundaries



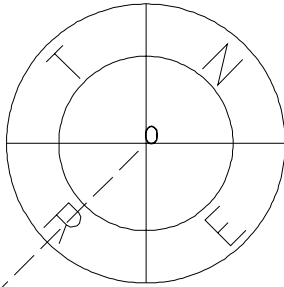
Name: C00130  
 QUARTER CORNER OFFSET SE  
 LV: 12  
 CO: 12  
 WT: 0  
 STG. MGR. GROUP - Boundaries



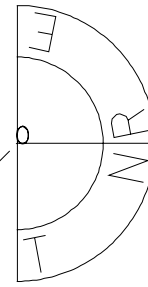
Name: C00131  
 DR PROF WTR SURF INDIC  
 LV: 37  
 CO: 37  
 WT: 0  
 STG. MGR. GROUP - Drainage EX



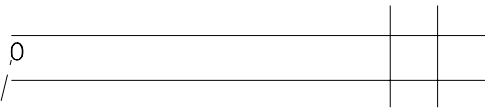
Name: C00132  
 SECTION CORNER SYMBOL  
 LV: 12  
 CO: 12  
 WT: 0  
 STG. MGR. GROUP - Boundaries



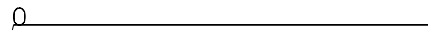
Name: C00133  
 QUARTER CORNER OFFSET NW  
 LV: 12  
 CO: 12  
 WT: 0  
 STG. MGR. GROUP - Boundaries

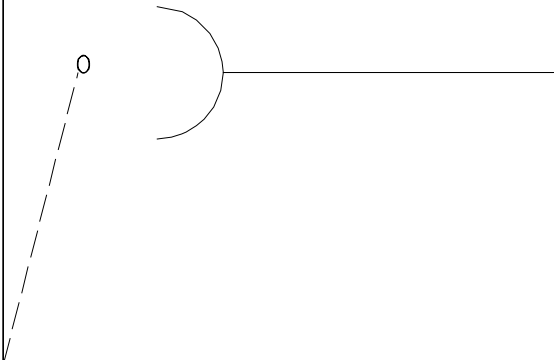
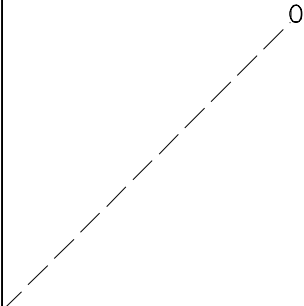
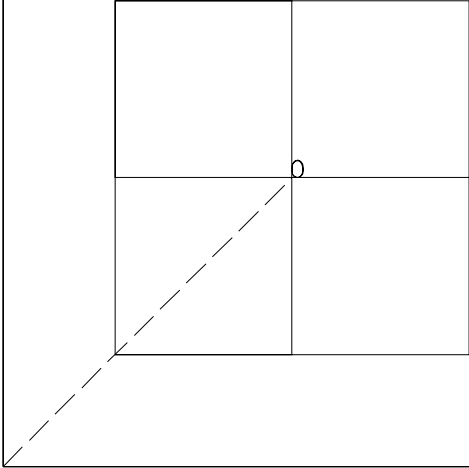
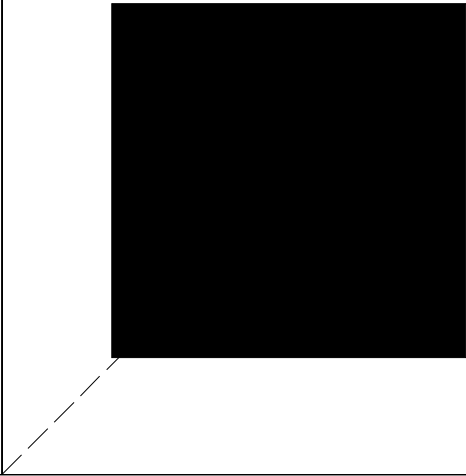


Name: C00134  
 RR TRACK PAT EX  
 LV: 38  
 CO: 38  
 WT: 0  
 STG. MGR. GROUP - Railroad EX

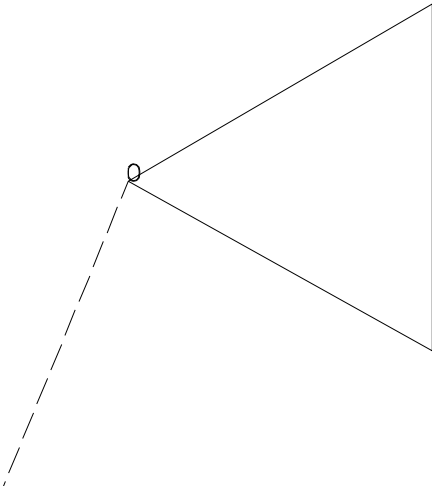


Name: C00136  
 ROW PATTERN  
 LV: 6  
 CO: 6  
 WT: 2  
 STG. MGR. GROUP - Right of Way EX

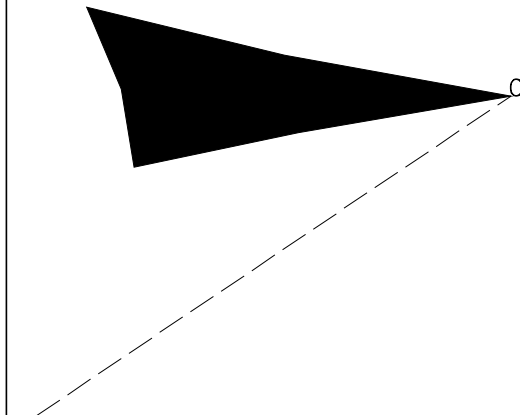


|   |   |
|---|---|
| <p><i>Name: C00137</i><br/><i>SANITARY SEWER EX</i><br/><i>LV: 57</i><br/><i>CO: 57</i><br/><i>WT: 0</i><br/><i>STG. MGR. GROUP - Underground Util. EX</i></p>  | <p><i>Name: C00138</i><br/><i>IRON PIPE FOUND</i><br/><i>LV: 12</i><br/><i>CO: 12</i><br/><i>WT: 0</i><br/><i>STG. MGR. GROUP - Boundaries</i></p>               |
| <p><i>Name: C00139</i><br/><i>TEL SPLICE BOX ABV GND</i><br/><i>LV: 14</i><br/><i>CO: 14</i><br/><i>WT: 0</i><br/><i>STG. MGR. GROUP - Utilities EX</i></p>    | <p><i>Name: C00140</i><br/><i>ROW CORNER MONUMENT PR</i><br/><i>LV: 40</i><br/><i>CO: 40</i><br/><i>WT: 0</i><br/><i>STG. MGR. GROUP - Right of Way PR</i></p>  |

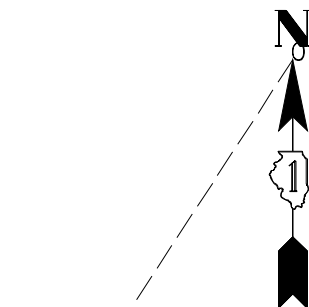
Name: C00143  
 CULVERT END SECTION  
 LV: 37  
 CO: 37  
 WT: 0  
 STG. MGR. GROUP - Drainage EX



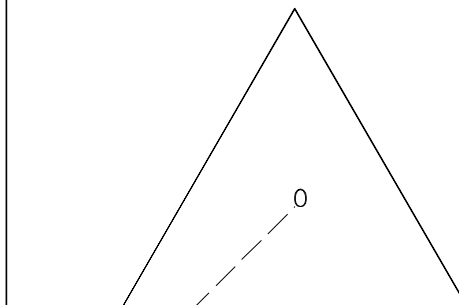
Name: C00145  
 ARROW FILLED  
 LV: 47  
 CO: 1  
 WT: 1  
 STG. MGR. GROUP - Gen Details & Plan Sheets

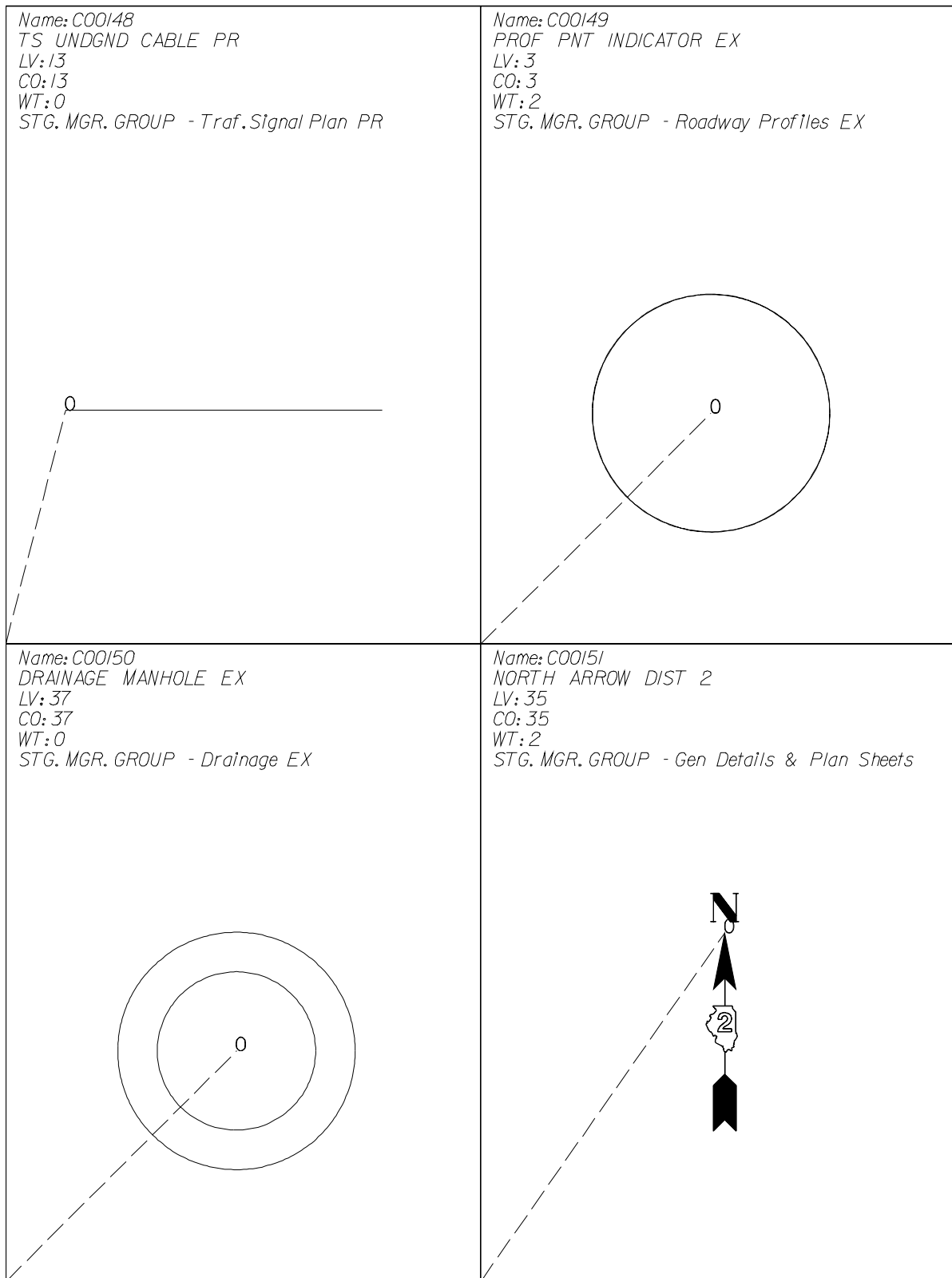


Name: C00146  
 NORTH ARROW DIST 1  
 LV: 35  
 CO: 35  
 WT: 2  
 STG. MGR. GROUP - Gen Details & Plan Sheets



Name: C00147  
 PROF PI INDICATOR EX  
 LV: 3  
 CO: 3  
 WT: 2  
 STG. MGR. GROUP - Roadway Profiles EX







Name: C00152  
NORTH ARROW DIST 3  
LV: 35  
CO: 35  
WT: 2  
STG. MGR. GROUP - Gen Details & Plan Sheets



Name: C00153  
NORTH ARROW DIST 4  
LV: 35  
CO: 35  
WT: 2  
STG. MGR. GROUP - Gen Details & Plan Sheets



Name: C00154  
NORTH ARROW DIST 5  
LV: 35  
CO: 35  
WT: 2  
STG. MGR. GROUP - Gen Details & Plan Sheets



Name: C00155  
NORTH ARROW DIST 6  
LV: 35  
CO: 35  
WT: 2  
STG. MGR. GROUP - Gen Details & Plan Sheets



Name: C00156  
 NORTH ARROW DIST 7  
 LV: 35  
 CO: 35  
 WT: 2  
 STG. MGR. GROUP - Gen Details & Plan Sheets



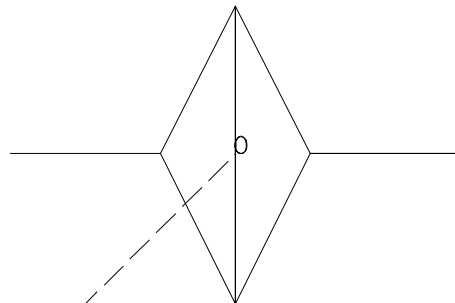
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 NORTH ARROW DIST 8  
 LV: 35  
 CO: 35  
 WT: 2  
 STG. MGR. GROUP - Gen Details & Plan Sheets



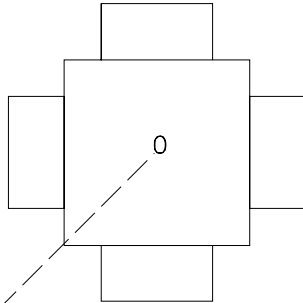
Name: C00158  
 NORTH ARROW DIST 9  
 LV: 35  
 CO: 35  
 WT: 2  
 STG. MGR. GROUP - Gen Details & Plan Sheets



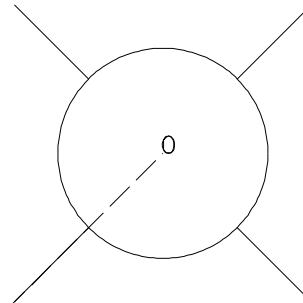
Name: C00163  
 DITCH CHECK EX  
 LV: 37  
 CO: 37  
 WT: 0  
 STG. MGR. GROUP - Drainage EX



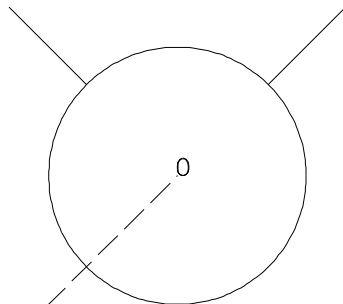
Name: C00164  
UTIL TRAFFIC SIGNAL EX  
LV: 14  
CO: 14  
WT: 0  
STG. MGR. GROUP - Utilities EX



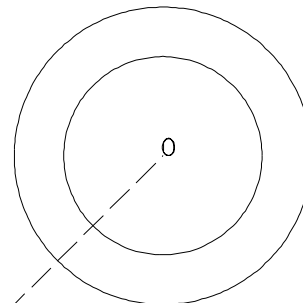
Name: C00165  
UTIL LIGHT POLE EX  
LV: 14  
CO: 14  
WT: 0  
STG. MGR. GROUP - Utilities EX



Name: C00167  
FIRE HYDRANT EX  
LV: 14  
CO: 14  
WT: 0  
STG. MGR. GROUP - Utilities EX



Name: C00168  
UTIL MANHOLE VV EX  
LV: 14  
CO: 14  
WT: 0  
STG. MGR. GROUP - Utilities EX



Name: C00169

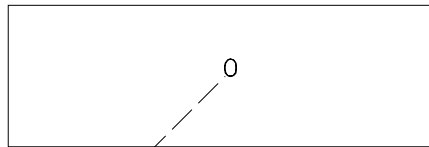
INLET EX

LV: 37

CO: 37

WT: 0

STG. MGR. GROUP - Drainage EX



Name: C00170

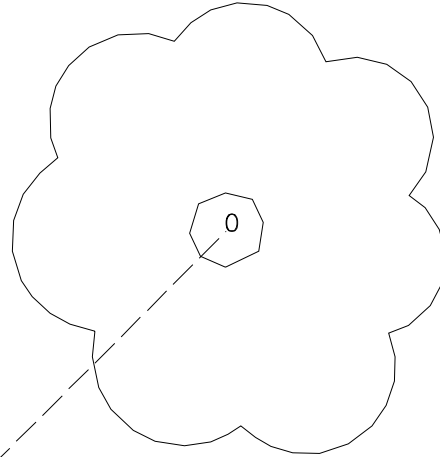
DECIDUOUS TREE EX

LV: 4

CO: 4

WT: 0

STG. MGR. GROUP - Vegetation



Name: C00171

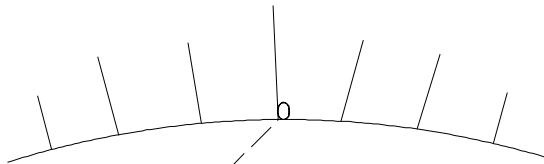
MARSH

LV: 5

CO: 5

WT: 0

STG. MGR. GROUP - Water Features



Name: C00172

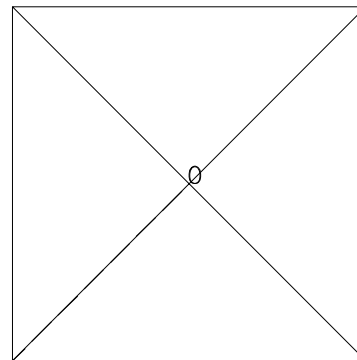
ROW MARKER EX

LV: 6

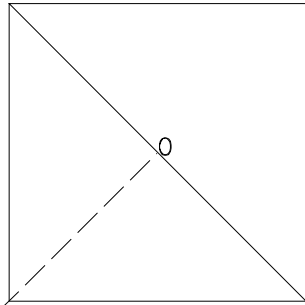
CO: 6

WT: 0

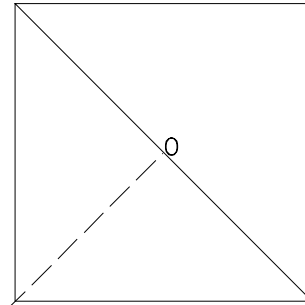
STG. MGR. GROUP - Right of Way EX



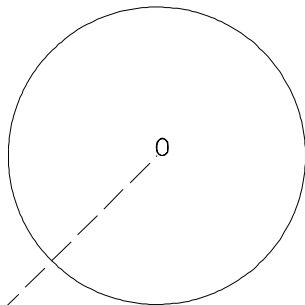
Name: C00173  
TS HANDHOLE EX  
LV: 11  
CO: 11  
WT: 0  
STG. MGR. GROUP - Traf. Signal Plan EX



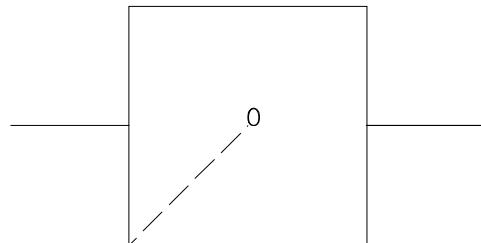
Name: C00174  
LGT HANDHOLE EX  
LV: 15  
CO: 15  
WT: 0  
STG. MGR. GROUP - Lighting EX



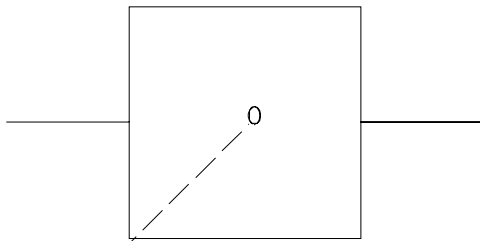
Name: C00175  
ALI POINT INDICATOR EX  
LV: 2  
CO: 2  
WT: 0  
STG. MGR. GROUP - Alignments EX



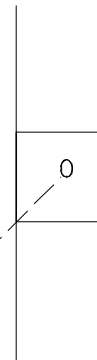
Name: C00177  
TS SERVICE INSTALL EX  
LV: 11  
CO: 11  
WT: 0  
STG. MGR. GROUP - Traf. Sheet Det. EX



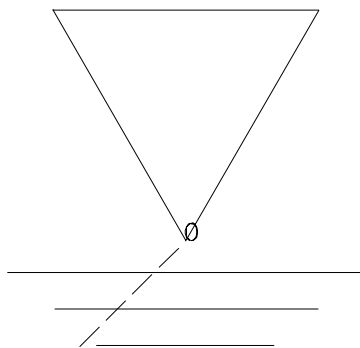
Name: C00178  
 LGT POWER POLE EX  
 LV: 15  
 CO: 15  
 WT: 0  
 STG. MGR. GROUP - Lighting EX



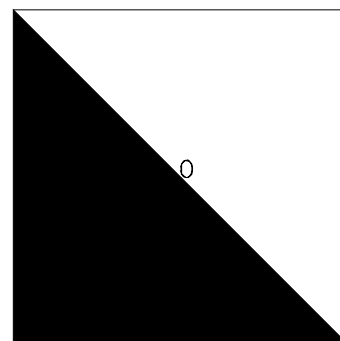
Name: C00179  
 TRAFFIC SIGN EX  
 LV: 28  
 CO: 28  
 WT: 0  
 STG. MGR. GROUP - Roadway Plan EX



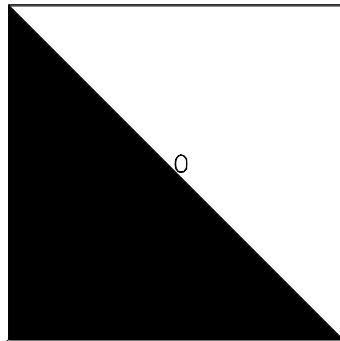
Name: C00180  
 XSEC WATR SURF INDIC  
 LV: 5  
 CO: 5  
 WT: 0  
 STG. MGR. GROUP - Water Features



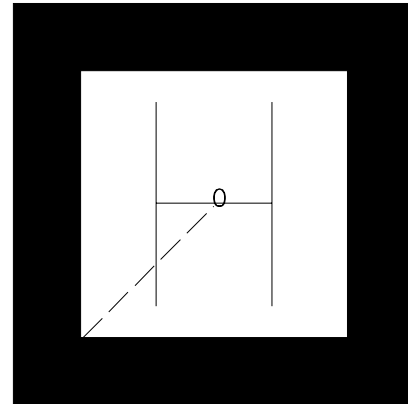
Name: C00181  
 TS HANDHOLE PR  
 LV: 13  
 CO: 13  
 WT: 0  
 STG. MGR. GROUP - Traf. Signal Plan PR



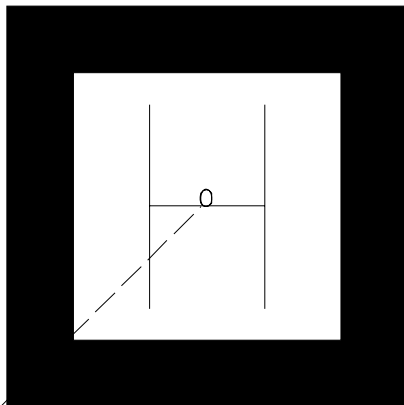
Name: C00182  
LGT HANDHOLE PR  
LV: 17  
CO: 17  
WT: 0  
STG. MGR. GROUP - Lighting PR



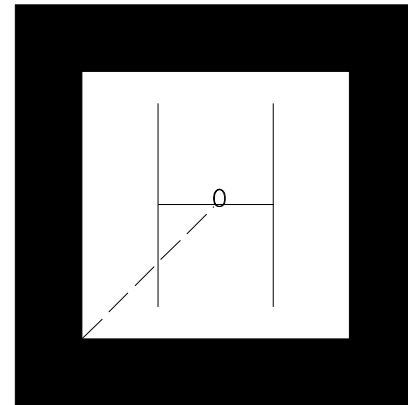
Name: C00183  
LGT HDUTY HANDHOLE PR  
LV: 13  
CO: 13  
WT: 1  
STG. MGR. GROUP - Traf. Signal Plan PR

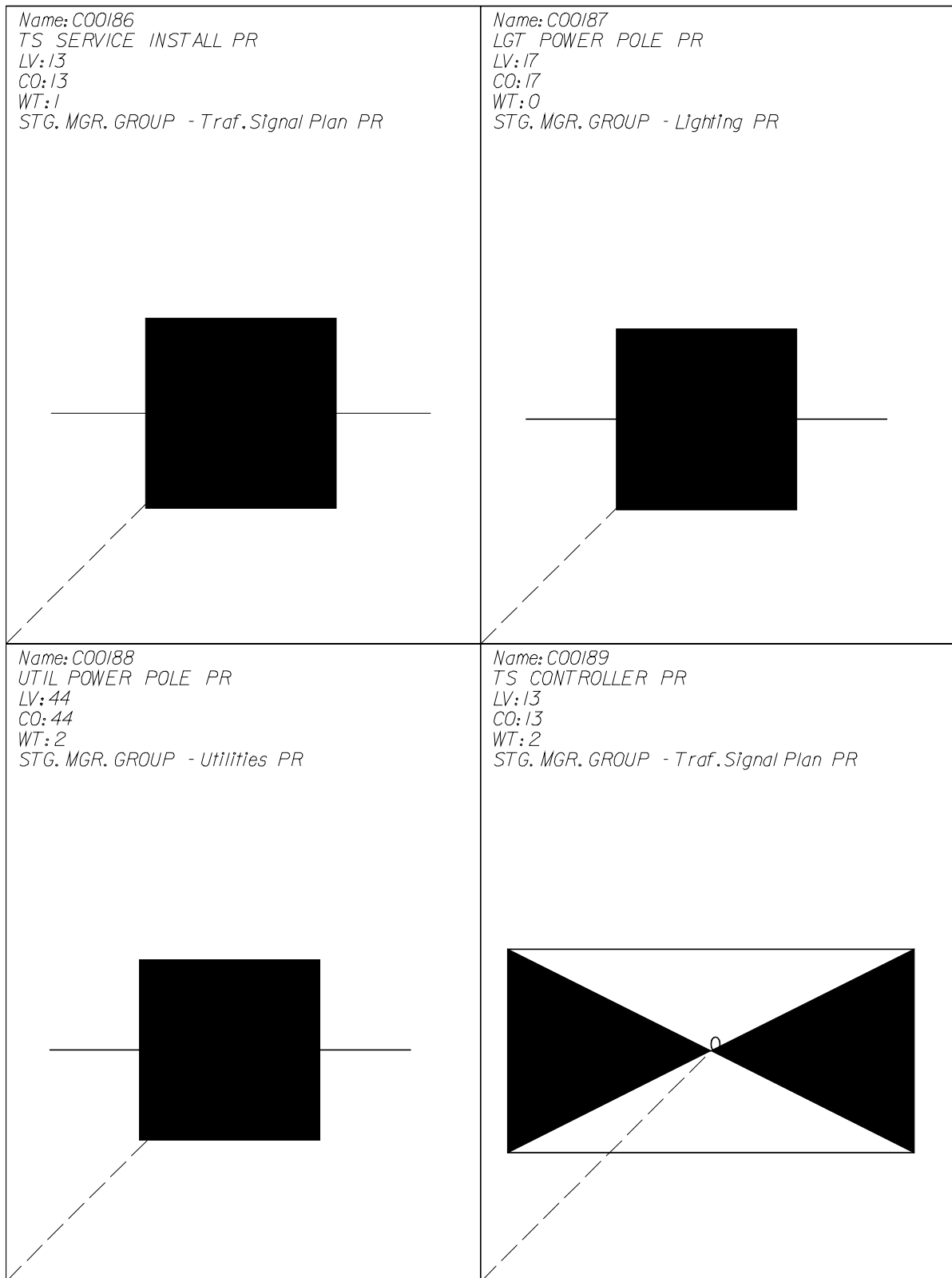


Name: C00184  
LGT HDUTY HANDHOLE PR  
LV: 17  
CO: 17  
WT: 1  
STG. MGR. GROUP - Lighting PR



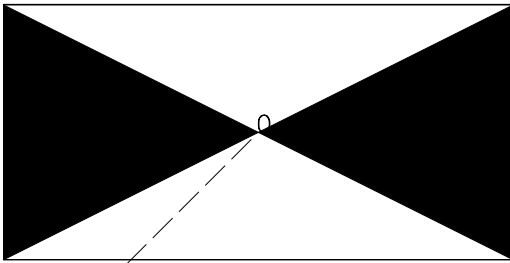
Name: C00185  
UTIL HDUTY HANDHOLE PR  
LV: 44  
CO: 44  
WT: 1  
STG. MGR. GROUP - Utilities PR



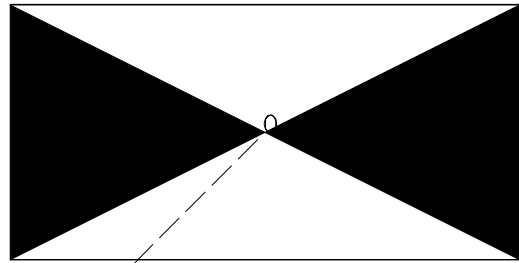




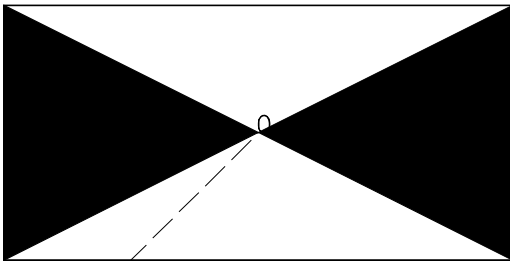
Name: C00190  
LGT CONTROLLER PR  
LV: 17  
CO: 17  
WT: 2  
STG. MGR. GROUP - Lighting PR



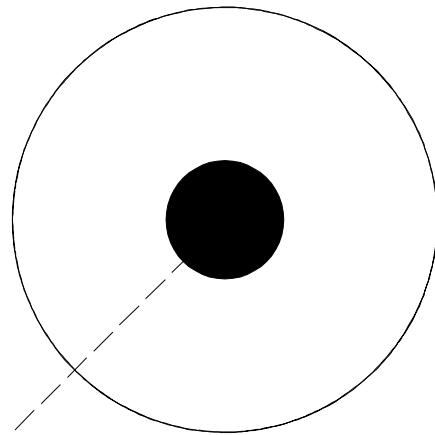
Name: C00191  
UTIL CONTROLLER PR  
LV: 44  
CO: 44  
WT: 2  
STG. MGR. GROUP - Utilities PR

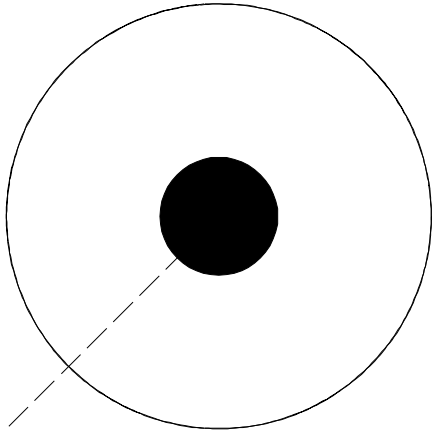
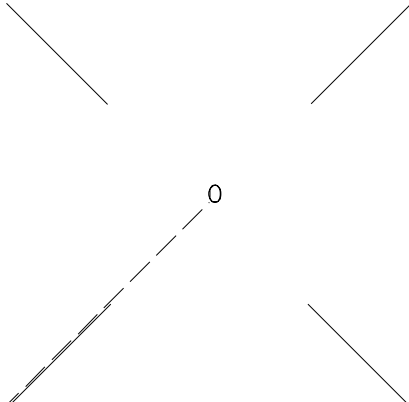
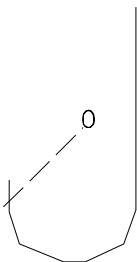
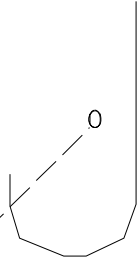


Name: C00192  
RR CONTROL BOX PR  
LV: 48  
CO: 48  
WT: 2  
STG. MGR. GROUP - Railroad PR

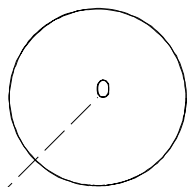


Name: C00193  
UTIL MANHOLE W PR  
LV: 44  
CO: 44  
WT: 2  
STG. MGR. GROUP - Utilities PR

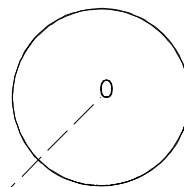


|   |   |
|---|---|
| <p>Name: C00194<br/>DRAINAGE MANHOLE PR<br/>LV: 52<br/>CO: 52<br/>WT: 2<br/>STG. MGR. GROUP - Drainage PR</p>    | <p>Name: C00195<br/>UTIL LIGHT POLE PR<br/>LV: 44<br/>CO: 44<br/>WT: 0<br/>STG. MGR. GROUP - Utilities PR</p>       |
| <p>Name: C00196<br/>LGT JUNCTION BOX PR<br/>LV: 17<br/>CO: 17<br/>WT: 1<br/>STG. MGR. GROUP - Lighting PR</p>  | <p>Name: C00197<br/>UTIL JUNCTION BOX PR<br/>LV: 44<br/>CO: 44<br/>WT: 1<br/>STG. MGR. GROUP - Utilities PR</p>  |

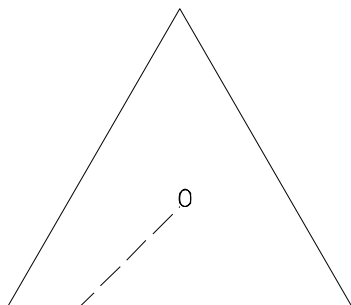
Name: C00198  
EOP PNT INDICATOR PR  
LV: 29  
CO: 29  
WT: 2  
STG. MGR. GROUP - Roadway Plan PR



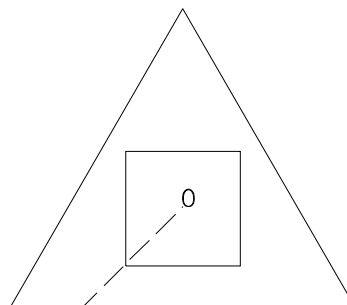
Name: C00199  
ALI POINT INDICATOR PR  
LV: 42  
CO: 42  
WT: 2  
STG. MGR. GROUP - Alignments PR



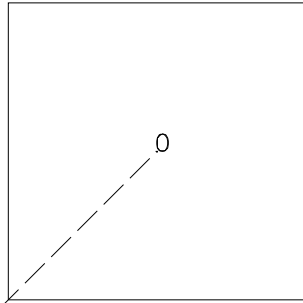
Name: C00201  
AS HORIZ CONTROL STATION  
LV: 30  
CO: 30  
WT: 0  
STG. MGR. GROUP -



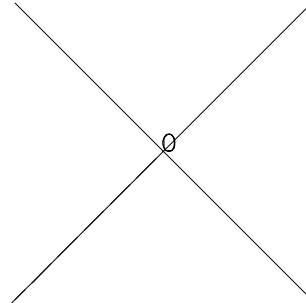
Name: C00202  
AS HORIZ CONTROL TARGET  
LV: 30  
CO: 30  
WT: 0  
STG. MGR. GROUP -



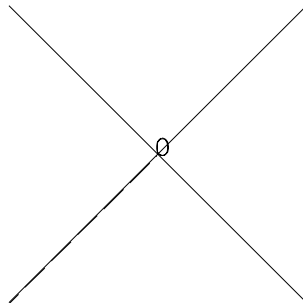
Name: C00203  
AS HORIZ PICTURE TIE  
LV: 30  
CO: 30  
WT: 0  
STG. MGR. GROUP -



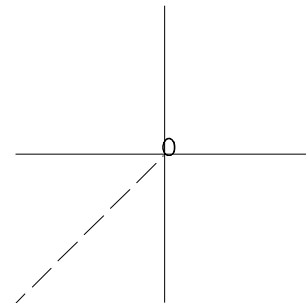
Name: C00204  
AS VERTICAL CONTROL STATION  
LV: 30  
CO: 30  
WT: 0  
STG. MGR. GROUP -

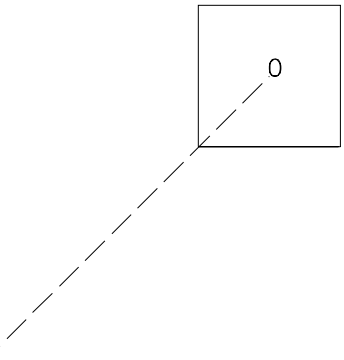
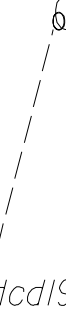
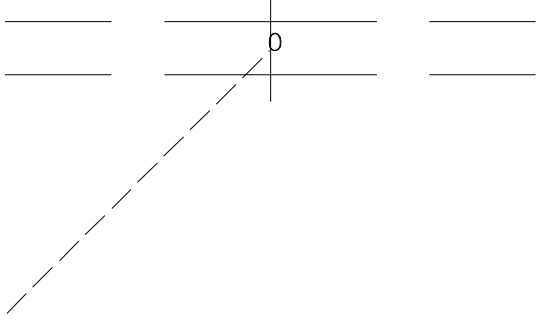
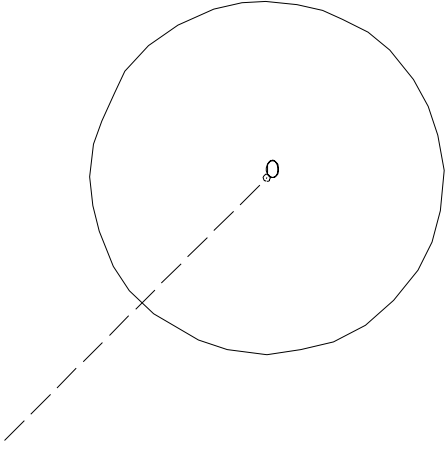


Name: C00205      Scale: 0.3957  
AS VERTICAL PICTURE TIE  
LV: 30  
CO: 30  
WT: 0  
STG. MGR. GROUP -

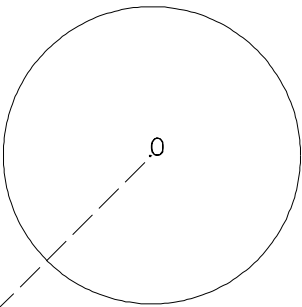
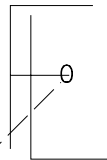
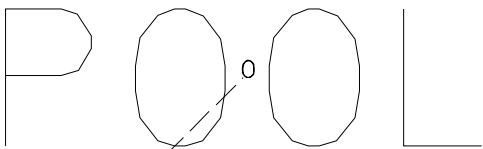



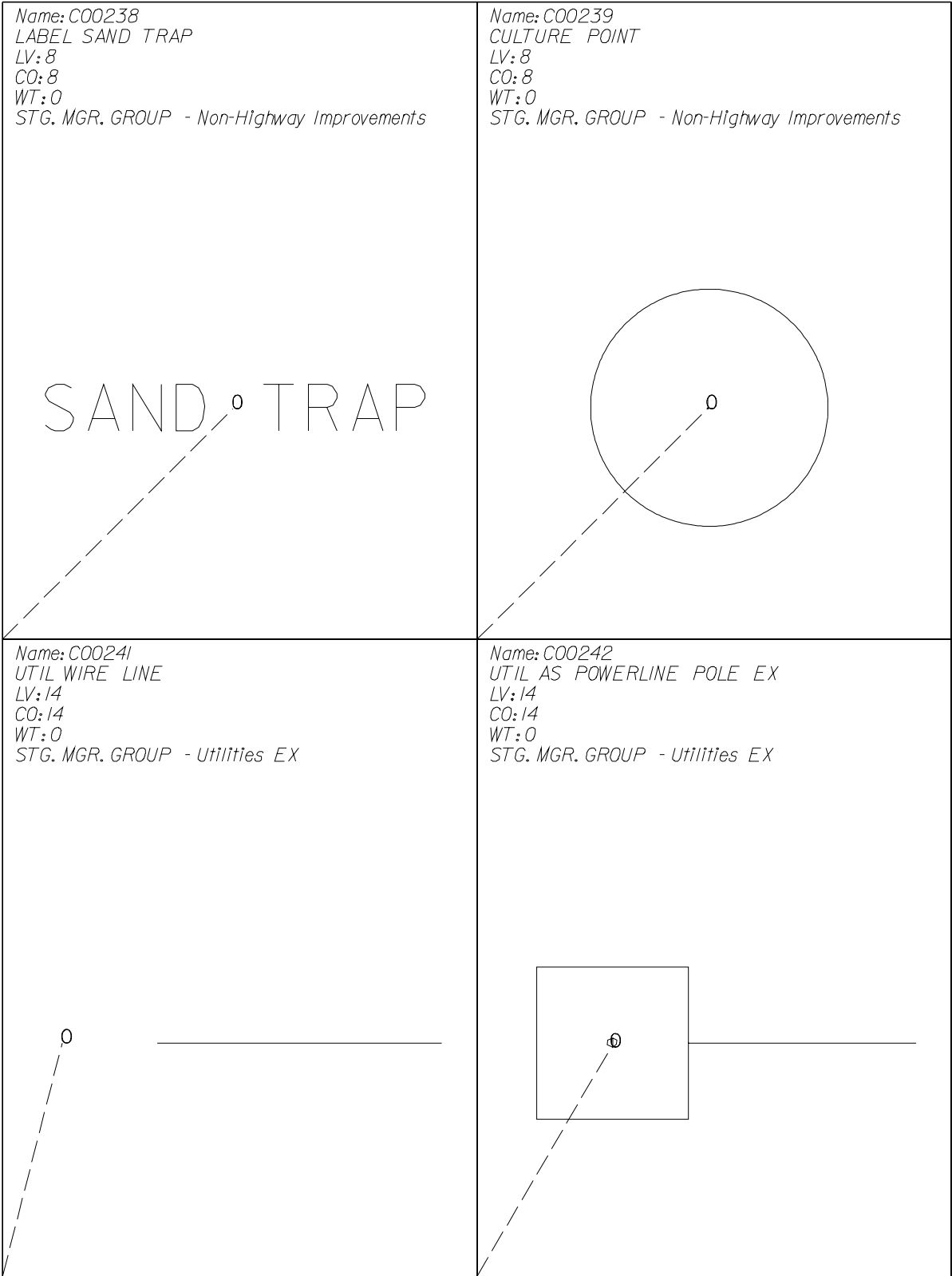
Name: C00207      Scale: 0.0840  
AS PRINCIPAL POINT  
LV: 30  
CO: 30  
WT: 0  
STG. MGR. GROUP -

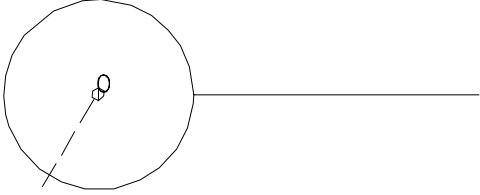
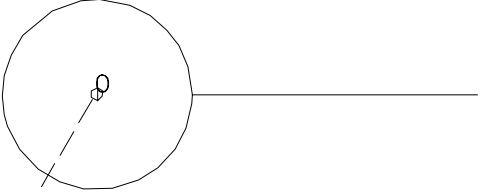
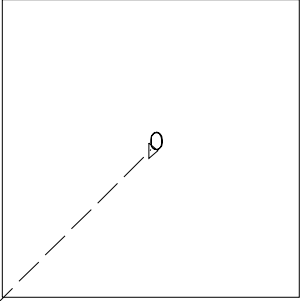



|   |   |
|---|---|
| <p> <i>Name: C00216</i><br/> <i>GUARDRAIL POST EX</i><br/> <i>LV: 28</i><br/> <i>CO: 28</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Roadway Plan EX</i> </p>  | <p> <i>Name: C00219</i><br/> <i>AS NOTE GROUND DATA OMITTE</i><br/> <i>LV: 26</i><br/> <i>CO: 26</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - N/A AERIAL SURVEYS</i> </p> <p>GROUND DATA<br/>OMITTED DUE TO<br/>OBSTRUCTED VIEW</p>  |
| <p> <i>Name: C00221</i><br/> <i>RR ABANDONED PATTERN</i><br/> <i>LV: 38</i><br/> <i>CO: 38</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Railroad EX</i> </p>  | <p> <i>Name: C00223</i><br/> <i>OTHER PVMT ITEM POINT EX</i><br/> <i>LV: 28</i><br/> <i>CO: 28</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Roadway Plan EX</i> </p>   |

Cell Library: dcd1993.cel

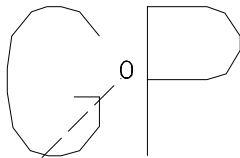
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|--|--|
| <p>Name: C00224<br/>MAJOR ROADS POINT EX<br/>LV: 27<br/>CO: 27<br/>WT: 0<br/>STG. MGR. GROUP - Roadway Plan EX</p>          | <p>Name: C00233<br/>FIELD LINE SYMBOL<br/>LV: 8<br/>CO: 8<br/>WT: 0<br/>STG. MGR. GROUP - Non-Highway Improvements</p>  |
| <p>Name: C00234<br/>LABEL SWIMMING POOL<br/>LV: 8<br/>CO: 8<br/>WT: 0<br/>STG. MGR. GROUP - Non-Highway Improvements</p>  | <p>Name: C00237<br/>LABEL GOLF GREEN<br/>LV: 8<br/>CO: 8<br/>WT: 0<br/>STG. MGR. GROUP - Non-Highway Improvements</p>  |



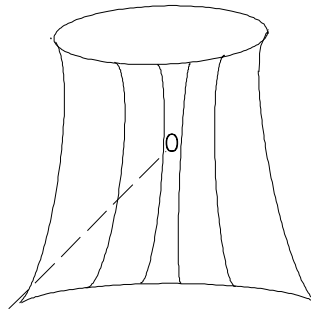
|   |  |
|---|--|
| <p>Name: C00243<br/>UTIL AS TELEPHONE POLE EX<br/>LV: 14<br/>CO: 14<br/>WT: 0<br/>STG. MGR. GROUP - Utilities EX</p>     | <p>Name: C00244<br/>UTIL AS GUY POLE EX<br/>LV: 14<br/>CO: 14<br/>WT: 0<br/>STG. MGR. GROUP - Utilities EX</p>   |
| <p>Name: C00245<br/>AS UTIL TRANSMISSION TOWER<br/>LV: 14<br/>CO: 14<br/>WT: 0<br/>STG. MGR. GROUP - Utilities EX</p>  | <p>Name: C00256<br/>AS LABEL PIPELINE WARNING<br/>LV: 18<br/>CO: 18<br/>WT: 0<br/>STG. MGR. GROUP - N/A AERIAL SURVEYS</p> <p>PIPELINE WARNING SIGN</p>  |



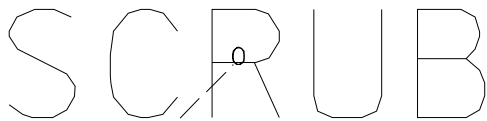
Name: C00257  
AS LABEL PIPELINE WARNING  
LV: 18  
CO: 18  
WT: 0  
STG. MGR. GROUP - N/A AERIAL SURVEYS



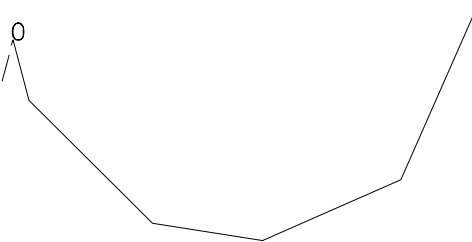
Name: C00263  
STUMP SYMBOL  
LV: 4  
CO: 4  
WT: 0  
STG. MGR. GROUP - Vegetation



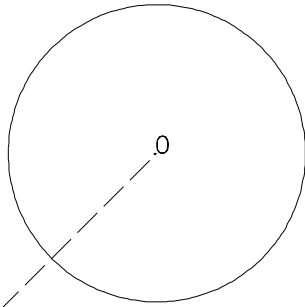
Name: C00264  
LABEL SCRUB  
LV: 4  
CO: 4  
WT: 0  
STG. MGR. GROUP - Vegetation



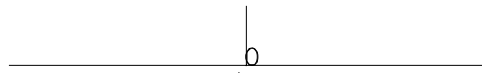
Name: C00265  
WOODS BUSH PATTERN EX  
LV: 4  
CO: 4  
WT: 0  
STG. MGR. GROUP - Vegetation



Name: C00273  
AS WATER POINT  
LV: 5  
CO: 5  
WT: 0  
STG. MGR. GROUP - Water Features



Name: C00277  
AS SINKHOLE PAT COMB  
LV: 26  
CO: 26  
WT: 0  
STG. MGR. GROUP - N/A AERIAL SURVEYS



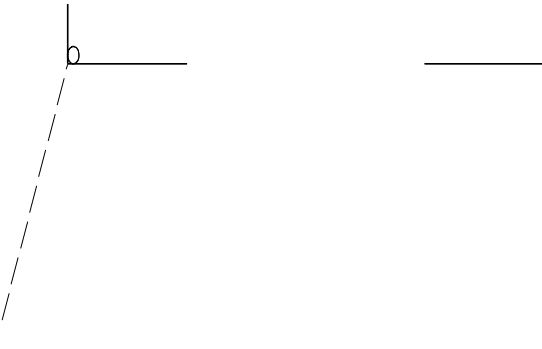
Name: C00278  
AS SINKHOLE PAT INDEX  
LV: 26  
CO: 26  
WT: 3  
STG. MGR. GROUP - N/A AERIAL SURVEYS



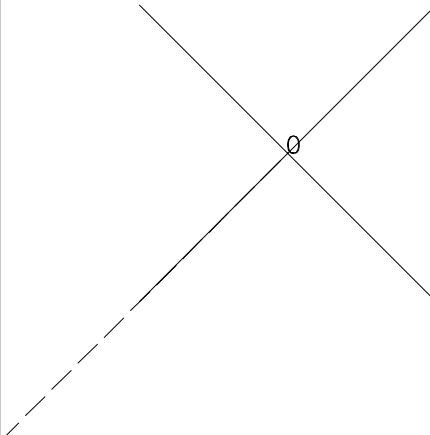
Name: C00280  
AS SINKHOLE PAT BROKEN  
LV: 26  
CO: 26  
WT: 0  
STG. MGR. GROUP - N/A AERIAL SURVEYS



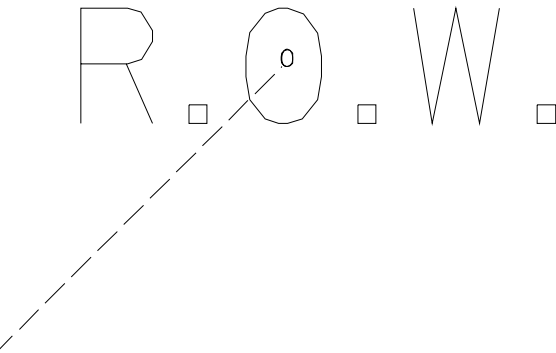
Name: C00281  
 AS SINKHOLE PAT INDEX DASHED  
 LV: 26  
 CO: 26  
 WT: 3  
 STG. MGR. GROUP - N/A AERIAL SURVEYS



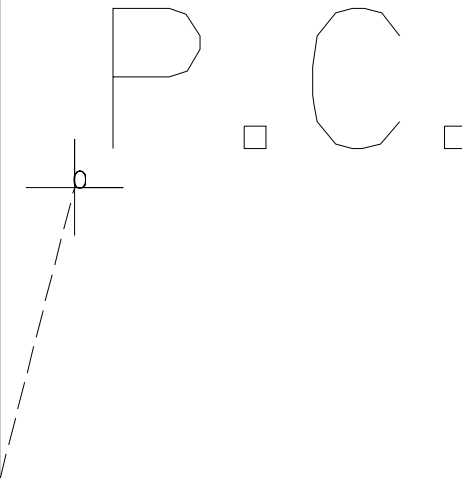
Name: C00283  
 AS SPOT EL SYMBOL  
 LV: 32  
 CO: 32  
 WT: 0  
 STG. MGR. GROUP - N/A AERIAL SURVEYS



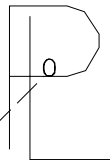
Name: C00285  
 LABEL ROW  
 LV: 6  
 CO: 6  
 WT: 0  
 STG. MGR. GROUP - Right of Way EX



Name: C00287  
 AS PROPERTY CORNER EX  
 LV: 12  
 CO: 12  
 WT: 0  
 STG. MGR. GROUP - N/A AERIAL SURVEYS



Name: C00288  
 PROPERTY LINE SYMBOL  
 LV: 12  
 CO: 12  
 WT: 0  
 STG. MGR. GROUP - Boundaries



Name: C00290  
 AS TITLE BOX 9 9 94  
 LV: 31  
 CO: 31  
 WT: 2  
 STG. MGR. GROUP - N/A AERIAL SURVEYS

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 BUREAU OF DESIGN AND ENVIRONMENT  
 PREPARED BY  
 AERIAL SURVEYS

MAP SCALE      CONTOUR INTERVAL  
 SHEET  
 COMPILED BY PHOTOGRAMMETRIC METHODS  
 FROM AERIAL PHOTOGRAPHY FLOWN

Name: C00291  
 AS NOTE NGVD 29  
 LV: 31  
 CO: 31  
 WT: 0  
 STG. MGR. GROUP - N/A AERIAL SURVEYS

ELEVATIONS REFLECT  
 NGVD 29 VALUES

Name: C00292  
 AS NOTE NAVD 88  
 LV: 31  
 CO: 31  
 WT: 0  
 STG. MGR. GROUP - N/A AERIAL SURVEYS

ELEVATIONS REFLECT  
 NAVD 88 VALUES

Name: C00293  
 AS NOTE NAD 27 GRID  
 LV: 3/  
 CO: 3/  
 WT: 0  
 STG. MGR. GROUP - N/A AERIAL SURVEYS

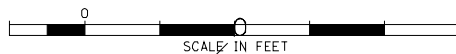
0 THIS MAP IS BASED ON THE ILLINOIS  
 STATE PLANE COORDINATE SYSTEM  
 REFERRED TO THE ARC OF SEA LEVEL  
 SPHEROID, NOT MODIFIED. GROUND  
 DISTANCE EQUALS MAP DISTANCE  
 DIVIDED BY A GRID FACTOR OF

MAP COORDINATES REFLECT  
 NAD 27 VALUES

Name: C00294  
 AS NORTH ARROW  
 LV: 3/  
 CO: 3/  
 WT: 0  
 STG. MGR. GROUP - N/A AERIAL SURVEYS



Name: C00295  
 AS SCALE BAR  
 LV: 3/  
 CO: 3/  
 WT: 1  
 STG. MGR. GROUP - N/A AERIAL SURVEYS

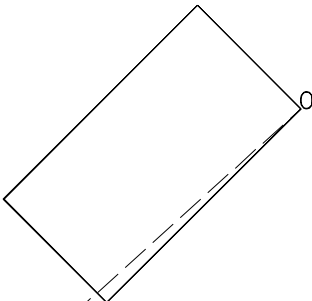
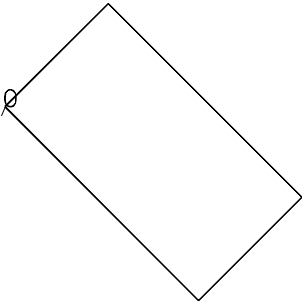


Name: C00301  
 AS NOTE NAD 83 GRID  
 LV: 3/  
 CO: 3/  
 WT: 0  
 STG. MGR. GROUP - N/A AERIAL SURVEYS

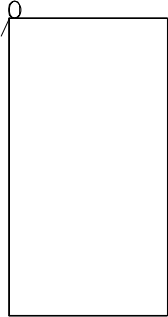
0 THIS MAP IS BASED ON THE ILLINOIS  
 STATE PLANE COORDINATE SYSTEM  
 REFERRED TO THE GEODETIC REFERENCE  
 SYSTEM OF 1980. GROUND DISTANCE  
 EQUALS MAP DISTANCE DIVIDED BY A  
 GRID FACTOR OF

MAP COORDINATES REFLECT  
 NAD 83 VALUES

ELEVATIONS REFLECT  
 NGVD 29 VALUES

|   |  |              |     |         |   |          |   |        |   |        |     |               |     |             |   |
|---|--|--------------|-----|---------|---|----------|---|--------|---|--------|-----|---------------|-----|-------------|---|
| <p>Name: C00302<br/>AS SHEET INDEX RIGHT<br/>LV: 3/<br/>CO: 3/<br/>WT: 2<br/>STG. MGR. GROUP - N/A AERIAL SURVEYS</p>    | <p>Name: C00303<br/>AS SHEET INDEX LEFT<br/>LV: 3/<br/>CO: 3/<br/>WT: 2<br/>STG. MGR. GROUP - N/A AERIAL SURVEYS</p>  |              |     |         |   |          |   |        |   |        |     |               |     |             |   |
| <p>Name: C00309<br/>AS NOTE BUILDING CLASS<br/>LV: 3/<br/>CO: 3/<br/>WT: 1<br/>STG. MGR. GROUP - N/A AERIAL SURVEYS</p> <p>0<br/>CLASSIFICATION OF BUILDINGS</p> <table><tr><td>C</td><td>= COMMERCIAL</td></tr><tr><td>HSE</td><td>= HOUSE</td></tr><tr><td>G</td><td>= GARAGE</td></tr><tr><td>S</td><td>= SHED</td></tr><tr><td>B</td><td>= BARN</td></tr><tr><td>MBH</td><td>= MOBILE HOME</td></tr><tr><td>APT</td><td>= APARTMENT</td></tr></table> | C  | = COMMERCIAL | HSE | = HOUSE | G | = GARAGE | S | = SHED | B | = BARN | MBH | = MOBILE HOME | APT | = APARTMENT | <p>Name: C00312<br/>AS NOTE DISCLAIMER<br/>LV: 3/<br/>CO: 3/<br/>WT: 0<br/>STG. MGR. GROUP - N/A AERIAL SURVEYS</p> <p>0<br/>THIS MAP MEETS THE ACCURACY FOR MAPPING SPECIFICATIONS AS LAID DOWN BY THE FEDERAL HIGHWAY ADMINISTRATION, U.S. DEPARTMENT OF TRANSPORTATION. MAP USERS ARE REMINDED THAT SHOULD YOU HAVE THIS MAP ENLARGED, THEN ANY MEASUREMENTS TAKEN FROM THE ENLARGEMENT ARE ONLY ACCURATE TO THE ORIGINAL COMPILATION SCALE.</p> |
| C   | = COMMERCIAL   |              |     |         |   |          |   |        |   |        |     |               |     |             |   |
| HSE   | = HOUSE  |              |     |         |   |          |   |        |   |        |     |               |     |             |   |
| G   | = GARAGE   |              |     |         |   |          |   |        |   |        |     |               |     |             |   |
| S   | = SHED   |              |     |         |   |          |   |        |   |        |     |               |     |             |   |
| B   | = BARN   |              |     |         |   |          |   |        |   |        |     |               |     |             |   |
| MBH   | = MOBILE HOME  |              |     |         |   |          |   |        |   |        |     |               |     |             |   |
| APT   | = APARTMENT  |              |     |         |   |          |   |        |   |        |     |               |     |             |   |

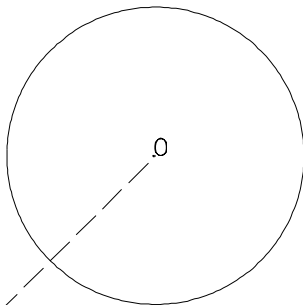
Name: C00313  
AS SHEET INDEX VERTICAL  
LV: 31  
CO: 31  
WT: 2  
STG. MGR. GROUP - N/A AERIAL SURVEYS



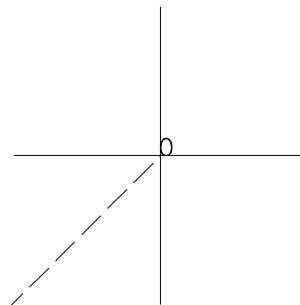
Name: C00322  
AS NOTE BRIDGE  
LV: 31  
CO: 31  
WT: 0  
STG. MGR. GROUP - N/A AERIAL SURVEYS

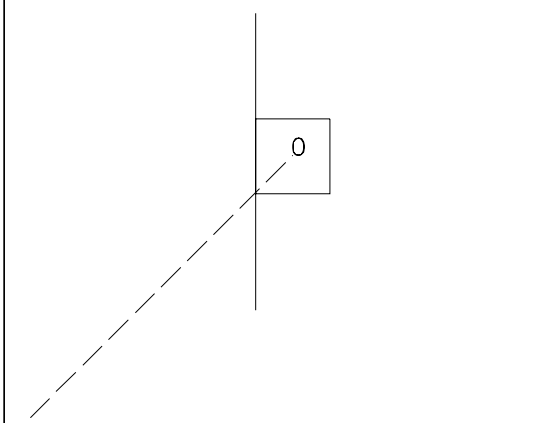
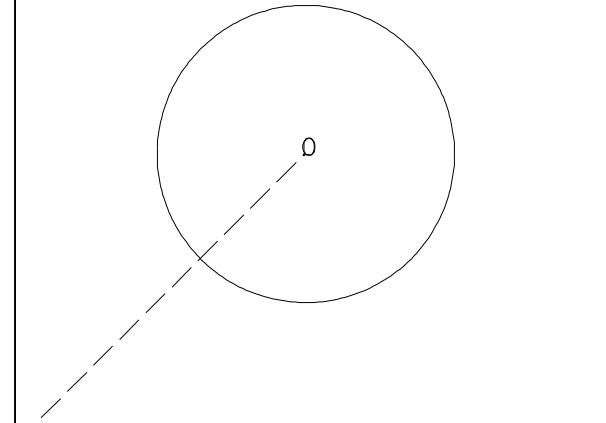
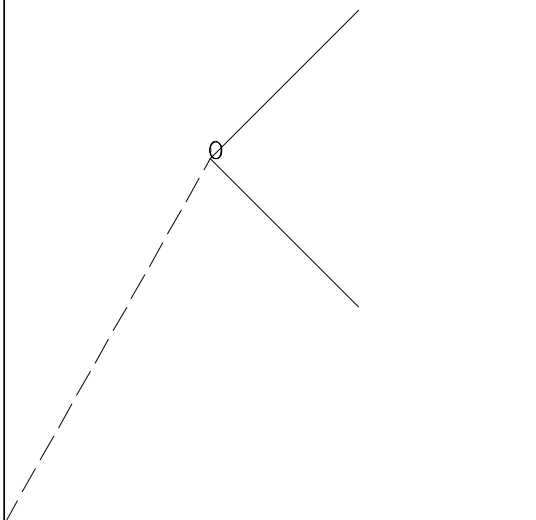
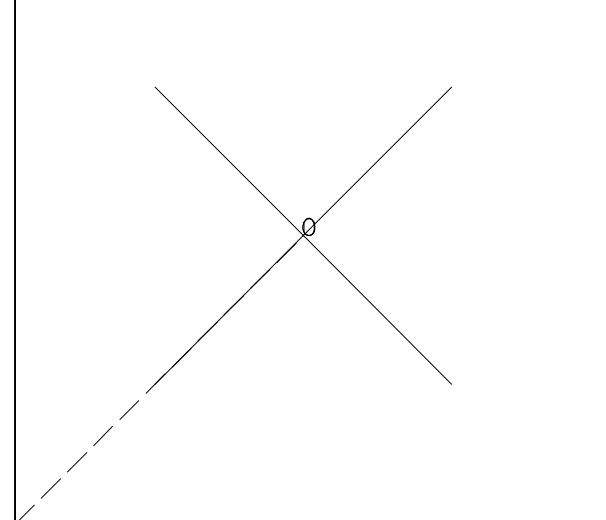
THIS MAP IS BASED ON AN ARBITRARY  
GRID SYSTEM. GROUND DISTANCE EQUALS  
MAP DISTANCE. NORTH AS SHOWN IS IN  
AN APPROXIMATE POSITION.

Name: C00333  
RR POINT  
LV: 38  
CO: 38  
WT: 0  
STG. MGR. GROUP - Railroad EX



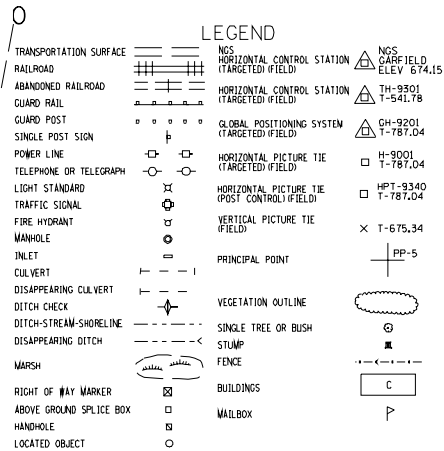
Name: C00345  
AS GRID TICK  
LV: 33  
CO: 33  
WT: 0  
STG. MGR. GROUP -



|   |   |
|---|---|
| <p>Name: C00356<br/>UTIL PIPELINE WARNING SYMBL<br/>LV: 14<br/>CO: 14<br/>WT: 0<br/>STG. MGR. GROUP - Utilities EX</p>  | <p>Name: C00357<br/>UTIL POINT<br/>LV: 14<br/>CO: 14<br/>WT: 0<br/>STG. MGR. GROUP - Utilities EX</p>  |
| <p>Name: C00361<br/>DISAPPEARING DITCH<br/>LV: 5<br/>CO: 5<br/>WT: 0<br/>STG. MGR. GROUP - Water Features</p>          | <p>Name: C00383<br/>AS TEST X<br/>LV: 32<br/>CO: 32<br/>WT: 0<br/>STG. MGR. GROUP -</p>               |



Name: C00391  
 AS DIST MAPING GENRL LEGEND  
 LV: 31  
 CO: 31  
 WT: 1  
 STG. MGR. GROUP - N/A AERIAL SURVEYS



Name: C00392  
 LABEL FLAG POLE  
 LV: 8  
 CO: 8  
 WT: 0  
 STG. MGR. GROUP - Non-Highway Improvements

0

FLAG  
POLE

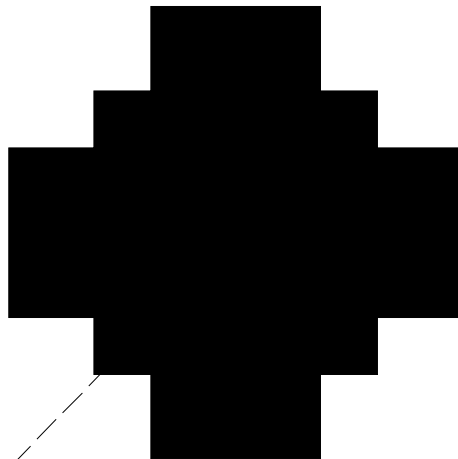
Name: C00400  
 ROW DIST I PR  
 LV: 40  
 CO: 40  
 WT: 3  
 STG. MGR. GROUP - Right of Way PR

0

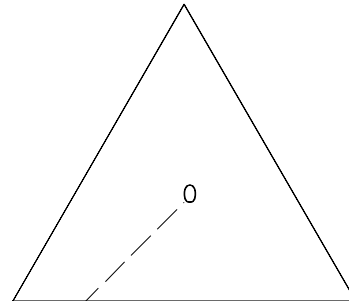
Name: C00401  
 EASEMENT PR  
 LV: 40  
 CO: 40  
 WT: 2  
 STG. MGR. GROUP - Right of Way PR

0

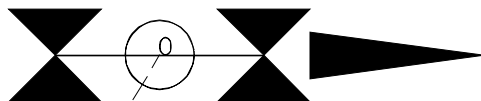
Name: C00402  
 UTIL TRAFFIC SIGNAL PR  
 LV: 44  
 CO: 44  
 WT: 0  
 STG. MGR. GROUP - Utilities PR



Name: C00408  
 ALI PI INDICATOR PR  
 LV: 42  
 CO: 42  
 WT: 2  
 STG. MGR. GROUP - Alignments PR



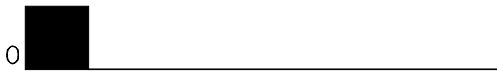
Name: C00418  
 RR CROSSING GATE PR  
 LV: 48  
 CO: 48  
 WT: 2  
 STG. MGR. GROUP - Railroad PR



Name: C00419  
 TRAFFIC SIGN PR  
 LV: 46  
 CO: 46  
 WT: 2  
 STG. MGR. GROUP - Roadway Plan PR



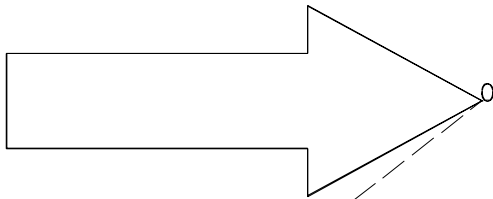
Name: C00420  
 GUARDRAIL PAT PR  
 LV: 46  
 CO: 46  
 WT: 2  
 STG. MGR. GROUP - Roadway Plan PR



Name: C00421  
 CORR MED AREA PAT PR  
 LV: 46  
 CO: 46  
 WT: 1  
 STG. MGR. GROUP - Roadway Plan PR

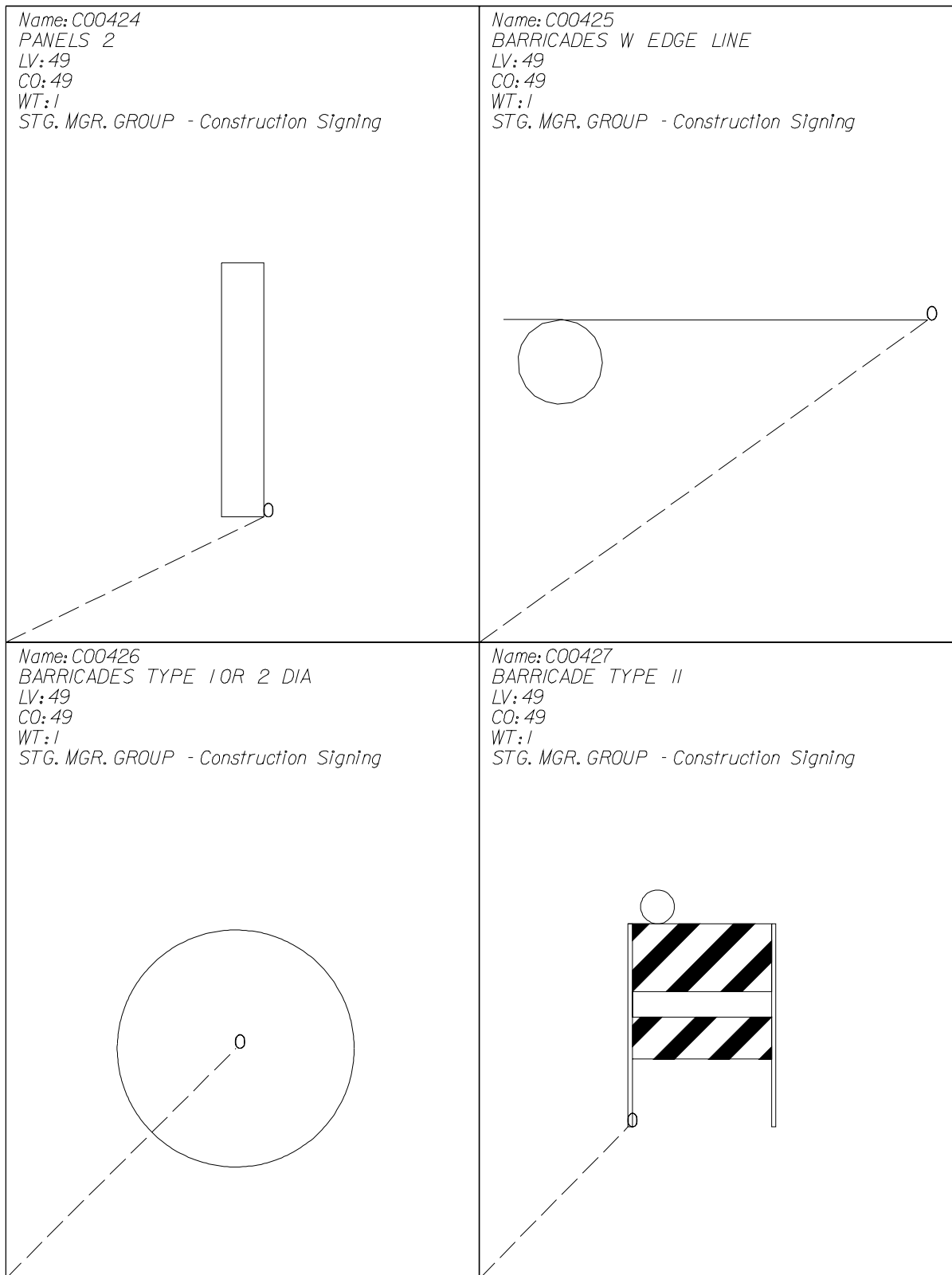


Name: C00422  
 DIRECTION OF TRAFFIC  
 LV: 49  
 CO: 49  
 WT: 2  
 STG. MGR. GROUP - Construction Signing

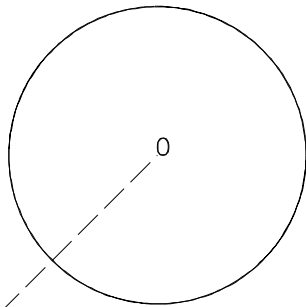


Name: C00423  
 PANELS 1  
 LV: 49  
 CO: 49  
 WT: 1  
 STG. MGR. GROUP - Construction Signing

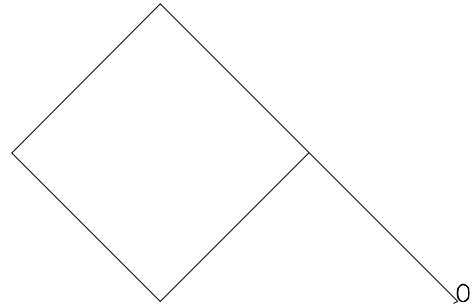




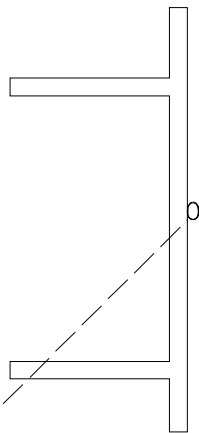
Name: C00428  
FLASHING LIGHT  
LV: 49  
CO: 49  
WT: 2  
STG. MGR. GROUP - Construction Signing



Name: C00429  
SIGN FLAG  
LV: 49  
CO: 49  
WT: 1  
STG. MGR. GROUP - Construction Signing



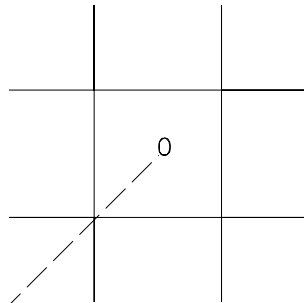
Name: C00430  
BARRICADES TYPE III  
LV: 49  
CO: 49  
WT: 1  
STG. MGR. GROUP - Construction Signing



Name: C00431  
BIT TAPER PATTERN  
LV: 49  
CO: 49  
WT: 0  
STG. MGR. GROUP - Construction Pavt Details



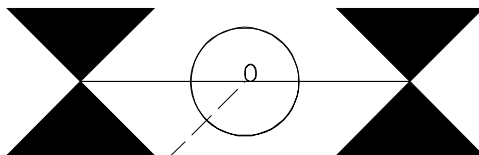
Name: C00432  
 DRIVEWAY STABILIZED PAT PR  
 LV: 49  
 CO: 49  
 WT: 1  
 STG. MGR. GROUP - Construction Pavt Details



Name: C00433  
 SAW LONG JTW TIE PAT  
 LV: 49  
 CO: 49  
 WT: 2  
 STG. MGR. GROUP - Construction Pavt Details


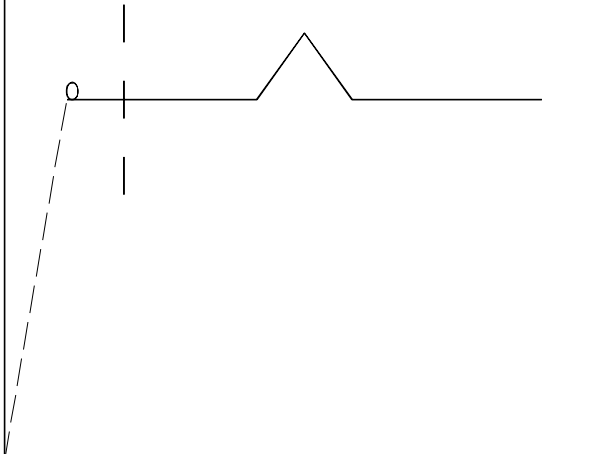
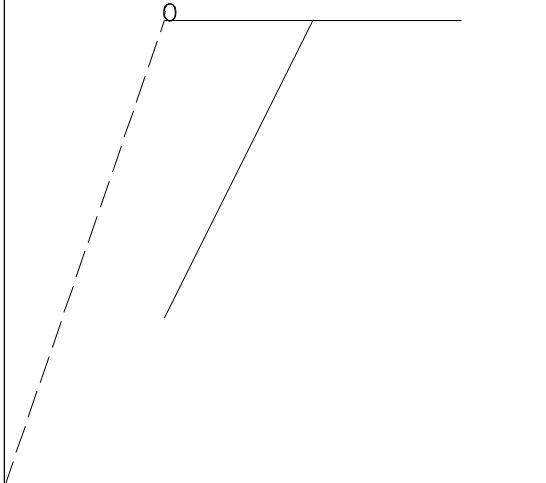



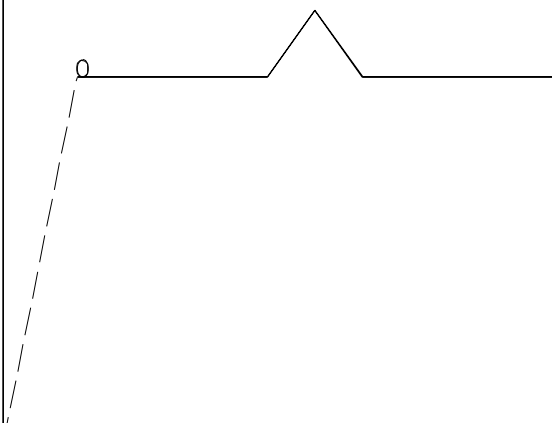
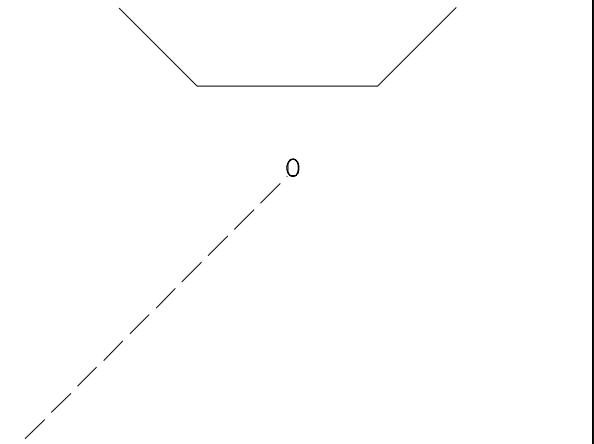
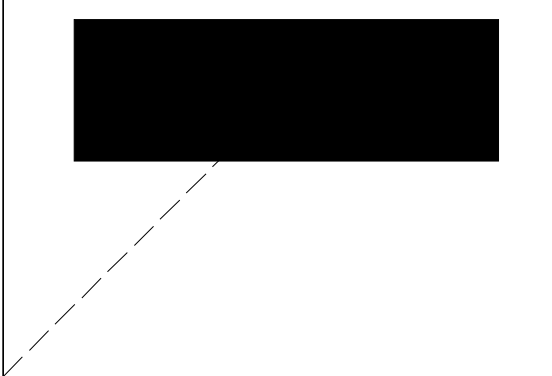
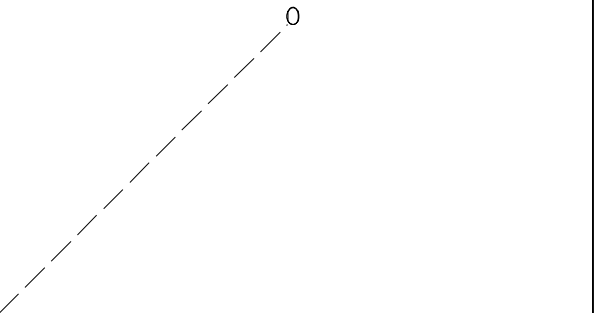
Name: C00434  
 RR FLASHING SIGNAL PR  
 LV: 48  
 CO: 48  
 WT: 2  
 STG. MGR. GROUP - Railroad PR



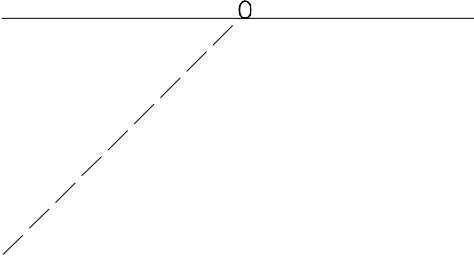
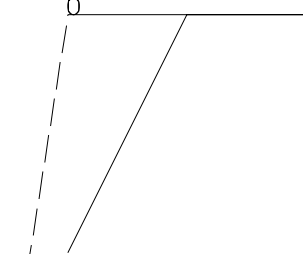
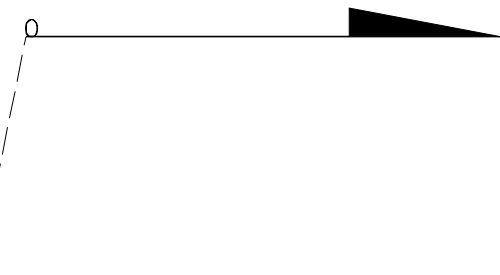
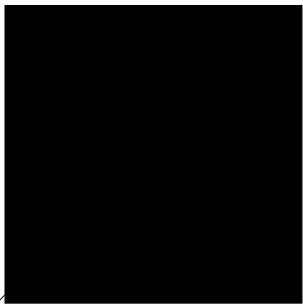
Name: C00435  
 BIT SHOULDER AREA PAT  
 LV: 49  
 CO: 49  
 WT: 1  
 STG. MGR. GROUP - Construction Pavt Details



|   |  |
|---|--|
| <p>Name: C00436<br/> TRVL DETAIL HATCH PAT<br/> LV: 49<br/> CO: 49<br/> WT: 1<br/> STG. MGR. GROUP - Construction Pavt Details</p>    | <p>Name: C00437<br/> KEYED LONG JT W TIE PAT<br/> LV: 49<br/> CO: 49<br/> WT: 2<br/> STG. MGR. GROUP - Construction Pavt Details</p>  |
| <p>Name: C00438<br/> TRAVEL DETAILS TIC PAT<br/> LV: 49<br/> CO: 49<br/> WT: 1<br/> STG. MGR. GROUP - Construction Pavt Details</p>  | <p>Name: C00439<br/> AGG SHOULDER PATTERN<br/> LV: 46<br/> CO: 46<br/> WT: 1<br/> STG. MGR. GROUP - Roadway Plan PR</p>              |

|  |  |
|--|--|
| <p>Name: C00440<br/>KEYED LONG JT PATTERN<br/>LV: 49<br/>CO: 49<br/>WT: 2<br/>STG. MGR. GROUP - Construction Pavt Details</p>  | <p>Name: C00441<br/>FIRE HYDRANT PR<br/>LV: 44<br/>CO: 44<br/>WT: 1<br/>STG. MGR. GROUP - Utilities PR</p>  |
| <p>Name: C00443<br/>INLET PR<br/>LV: 52<br/>CO: 52<br/>WT: 0<br/>STG. MGR. GROUP - Drainage PR</p>                            | <p>Name: C00445<br/>CATCH BASIN PR<br/>LV: 52<br/>CO: 52<br/>WT: 0<br/>STG. MGR. GROUP - Drainage PR</p>   |

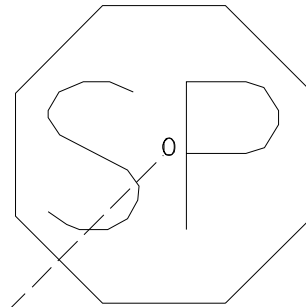


|   |  |
|---|--|
| <p>Name: C00446<br/>TELEPHONE POLE PR<br/>LV: 44<br/>CO: 44<br/>WT: 1<br/>STG. MGR. GROUP - Utilities PR</p>            | <p>Name: C00447<br/>REMOVAL ITEM TIC PAT<br/>LV: 54<br/>CO: 54<br/>WT: 0<br/>STG. MGR. GROUP - Removal Items</p>         |
| <p>Name: C00448<br/>PIPE UNDERDRAIN PR<br/>LV: 58<br/>CO: 58<br/>WT: 2<br/>STG. MGR. GROUP - Underground Util. PR</p>  | <p>Name: C00450<br/>UTIL SPLICE BOX ABV GND PR<br/>LV: 44<br/>CO: 44<br/>WT: 0<br/>STG. MGR. GROUP - Utilities PR</p>  |

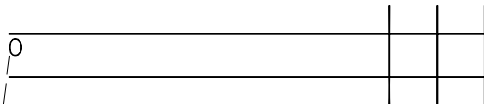
Name: C00452  
 SWALE PR  
 LV: 52  
 CO: 52  
 WT: 2  
 STG. MGR. GROUP - Drainage PR



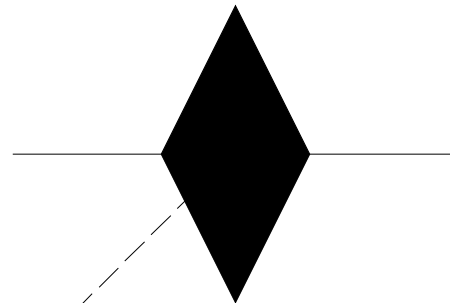
Name: C00453  
 SPECIAL ADJUSTMENT  
 LV: 53  
 CO: 53  
 WT: 1  
 STG. MGR. GROUP - Adjustment Items



Name: C00457  
 RR TRACK PAT PR  
 LV: 48  
 CO: 48  
 WT: 2  
 STG. MGR. GROUP - Railroad PR



Name: C00458  
 DITCH CHECK PR  
 LV: 52  
 CO: 52  
 WT: 1  
 STG. MGR. GROUP - Drainage PR

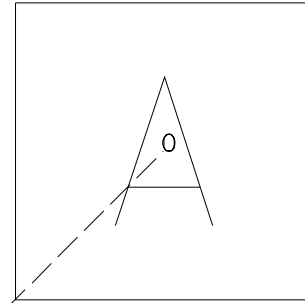


Name: C00459  
PAVT REM ADJ  
LV: 53  
CO: 53  
WT: 0  
STG. MGR. GROUP - Adjustment Items

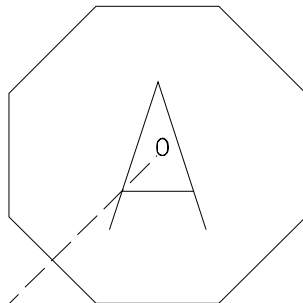
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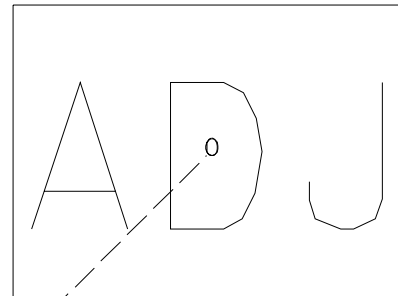
Name: C00460  
FRAME AND GRATE ADJUST  
LV: 53  
CO: 53  
WT: 1  
STG. MGR. GROUP - Adjustment Items



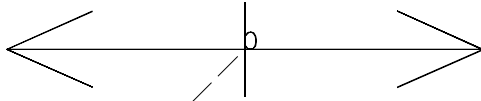
Name: C00461  
FRAME AND LID ADJUST  
LV: 53  
CO: 53  
WT: 1  
STG. MGR. GROUP - Adjustment Items



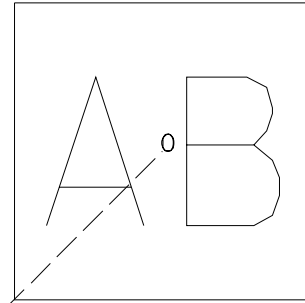
Name: C00462  
STRUCTURE TO BE ADJUST  
LV: 53  
CO: 53  
WT: 1  
STG. MGR. GROUP - Adjustment Items



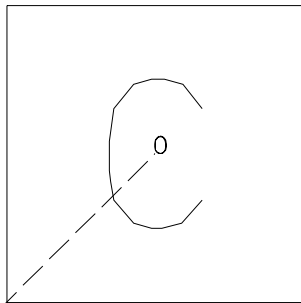
Name: C00463  
 SUMMIT PR  
 LV: 52  
 CO: 52  
 WT: 2  
 STG. MGR. GROUP - Drainage PR



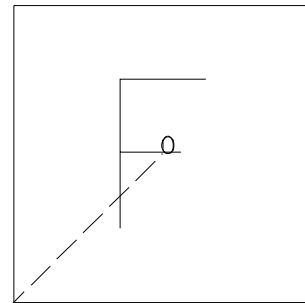
Name: C00464  
 ITEM TO BE ABANDONED  
 LV: 53  
 CO: 53  
 WT: 1  
 STG. MGR. GROUP - Adjustment Items



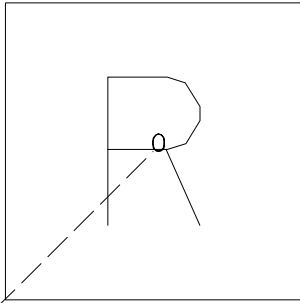
Name: C00465  
 STRUCTURE CLEAN  
 LV: 53  
 CO: 53  
 WT: 1  
 STG. MGR. GROUP - Adjustment Items



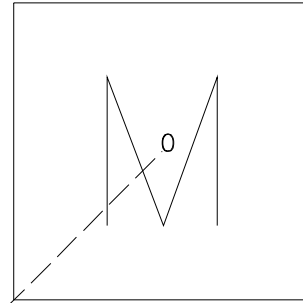
Name: C00466  
 STRUCTURE FILL  
 LV: 53  
 CO: 53  
 WT: 1  
 STG. MGR. GROUP - Adjustment Items



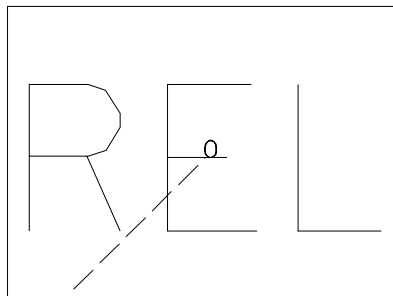
Name: C00467  
STRUCTURE REMOVAL  
LV: 53  
CO: 53  
WT: 1  
STG. MGR. GROUP - Adjustment Items



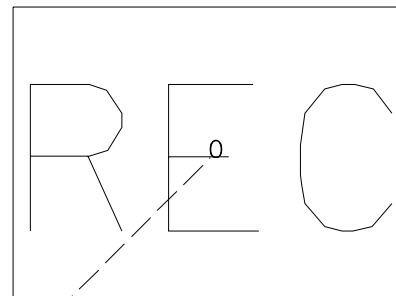
Name: C00468  
ITEM TO BE MOVED  
LV: 53  
CO: 53  
WT: 1  
STG. MGR. GROUP - Adjustment Items

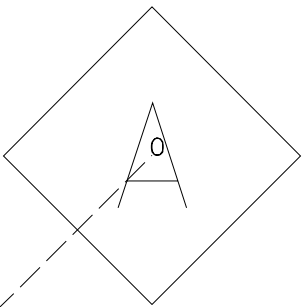
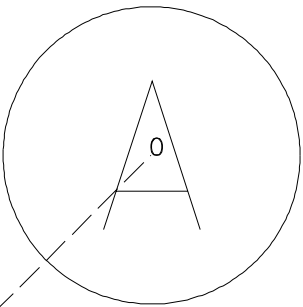
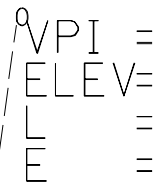
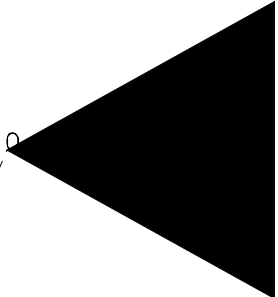


Name: C00469  
ITEM TO BE RELOCATED  
LV: 53  
CO: 53  
WT: 1  
STG. MGR. GROUP - Adjustment Items

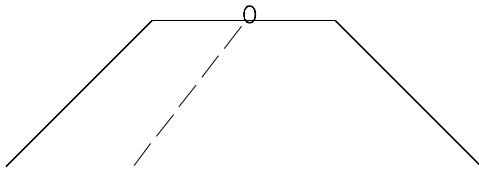


Name: C00470  
STRUCTURE TO BE RECONSTR  
LV: 53  
CO: 53  
WT: 1  
STG. MGR. GROUP - Adjustment Items



|  |  |
|--|--|
| <p>Name: C00471<br/>DOMESTIC SRVC BOX ADJ<br/>LV: 53<br/>CO: 53<br/>WT: 1<br/>STG. MGR. GROUP - Adjustment Items</p>    | <p>Name: C00472<br/>VALVE BOX TO BE ADJUSTED<br/>LV: 53<br/>CO: 53<br/>WT: 1<br/>STG. MGR. GROUP - Adjustment Items</p>  |
| <p>Name: C00475<br/>VERT CURVE DATA PR<br/>LV: 43<br/>CO: 43<br/>WT: 3<br/>STG. MGR. GROUP - Roadway Profiles PR</p>  | <p>Name: C00476<br/>CULVERT END SECTION PR<br/>LV: 52<br/>CO: 52<br/>WT: 0<br/>STG. MGR. GROUP - Drainage PR</p>       |

Name: C00477  
HEADWALL PR  
LV: 52  
CO: 52  
WT: 2  
STG. MGR. GROUP - Drainage PR



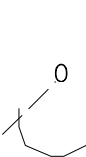
Name: C00478  
RDWY DITCH FLOW PR  
LV: 52  
CO: 52  
WT: 2  
STG. MGR. GROUP - Drainage PR



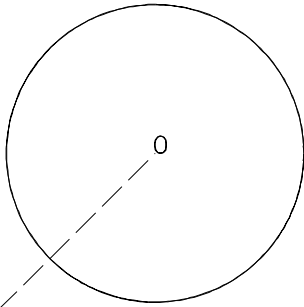
Name: C00480  
REMOVAL HATCHING PAT  
LV: 54  
CO: 54  
WT: 0  
STG. MGR. GROUP - Removal Items



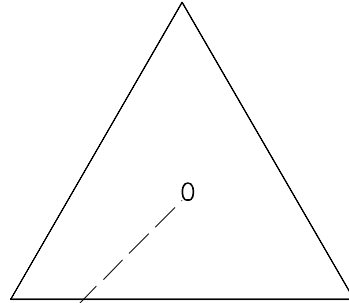
Name: C00481  
TS JUNCTION BOX PR  
LV: 13  
CO: 13  
WT: 1  
STG. MGR. GROUP - Traf. Signal Plan PR



Name: C00482  
 PROF PNT INDICATOR PR  
 LV: 43  
 CO: 43  
 WT: 3  
 STG. MGR. GROUP - Roadway Profiles PR



Name: C00483  
 PROF PI INDICATOR PR  
 LV: 43  
 CO: 43  
 WT: 3  
 STG. MGR. GROUP - Roadway Profiles PR



Name: C00485  
 HORIZ CURVE DATA PR  
 LV: 24  
 CO: 24  
 WT: 1  
 STG. MGR. GROUP - Alignment Notes PR

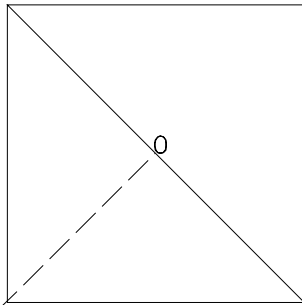
0 CURVE  
 P.I. STA=  
 $\Delta$ =  
 D=  
 R=  
 T=  
 L=  
 E=  
 e=  
 T.R.=  
 S.E. RUN=  
 P.C. STA=  
 P.T. STA=

Name: C00486  
 CL NO TIC PAT EX  
 LV: 2  
 CO: 2  
 WT: 0  
 STG. MGR. GROUP - Alignments EX

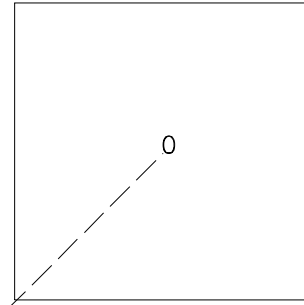




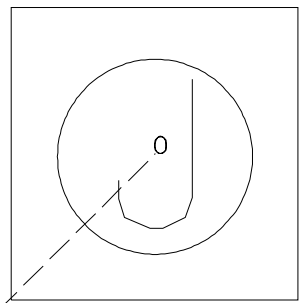
Name: C00487  
UTIL HANDHOLE EX  
LV: 14  
CO: 14  
WT: 0  
STG. MGR. GROUP - Utilities EX



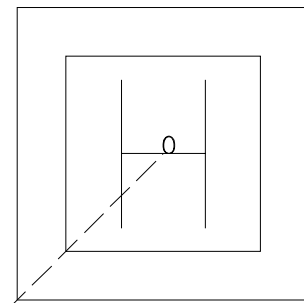
Name: C00488  
UTIL SPLICE BOX ABV GND EX  
LV: 14  
CO: 14  
WT: 0  
STG. MGR. GROUP - Utilities EX

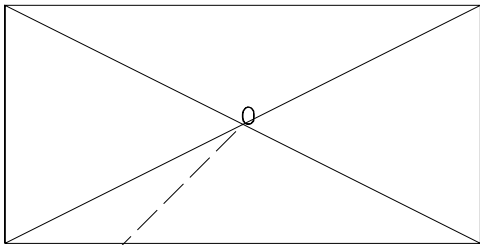
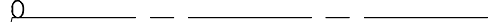

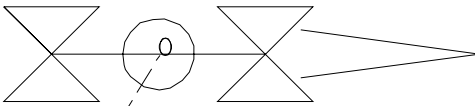


Name: C00489  
UTIL JUNCTION BOX EX  
LV: 14  
CO: 14  
WT: 0  
STG. MGR. GROUP - Utilities EX

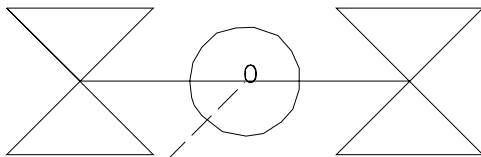


Name: C00490  
UTIL HDUTY HANDHOLE EX  
LV: 14  
CO: 14  
WT: 0  
STG. MGR. GROUP - Utilities EX



|  |   |
|--|---|
| <p> <i>Name: C00491</i><br/> <i>RR CONTROL BOX EX</i><br/> <i>LV: 38</i><br/> <i>CO: 38</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Railroad EX</i> </p>              | <p> <i>Name: C00492</i><br/> <i>CL PATTERN PR</i><br/> <i>LV: 42</i><br/> <i>CO: 42</i><br/> <i>WT: 2</i><br/> <i>STG. MGR. GROUP - Alignments PR</i> </p>        |
| <p> <i>Name: C00493</i><br/> <i>FENCE PATTERN EX</i><br/> <i>LV: 8</i><br/> <i>CO: 8</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Non-Highway Improvements</i> </p>  | <p> <i>Name: C00494</i><br/> <i>RR CROSSING GATE EX</i><br/> <i>LV: 38</i><br/> <i>CO: 38</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Railroad EX</i> </p>  |

Name: C00495  
 RR FLASHING SIGNAL EX  
 LV: 38  
 CO: 38  
 WT: 0  
 STG. MGR. GROUP - Railroad EX



Name: C00496  
 CORR MED AREA PAT EX  
 LV: 28  
 CO: 28  
 WT: 0  
 STG. MGR. GROUP - Roadway Plan EX



Name: C00497  
 PIPE UNDERDRAIN EX  
 LV: 57  
 CO: 57  
 WT: 0  
 STG. MGR. GROUP - Underground Util. EX



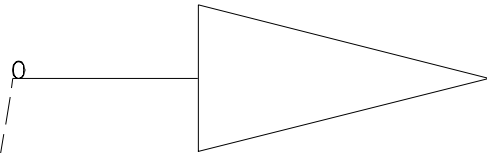
Name: C00500  
 VERT CURVE DATA EX  
 LV: 3  
 CO: 3  
 WT: 2  
 STG. MGR. GROUP - Roadway Profiles EX

VPI =  
 ELEV =  
 L =  
 E =

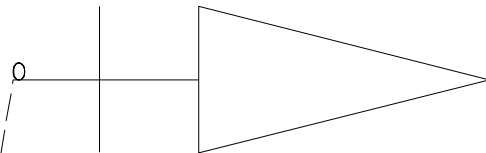
Name: C00505  
TS DET LOOP LARGE EX  
LV: II  
CO: II  
WT: 0  
STG. MGR. GROUP - Traf. Sheet Det. EX



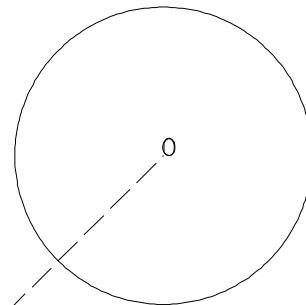
Name: C00506  
TS HEAD EX  
LV: II  
CO: II  
WT: 0  
STG. MGR. GROUP - Traf. Sheet Det. EX

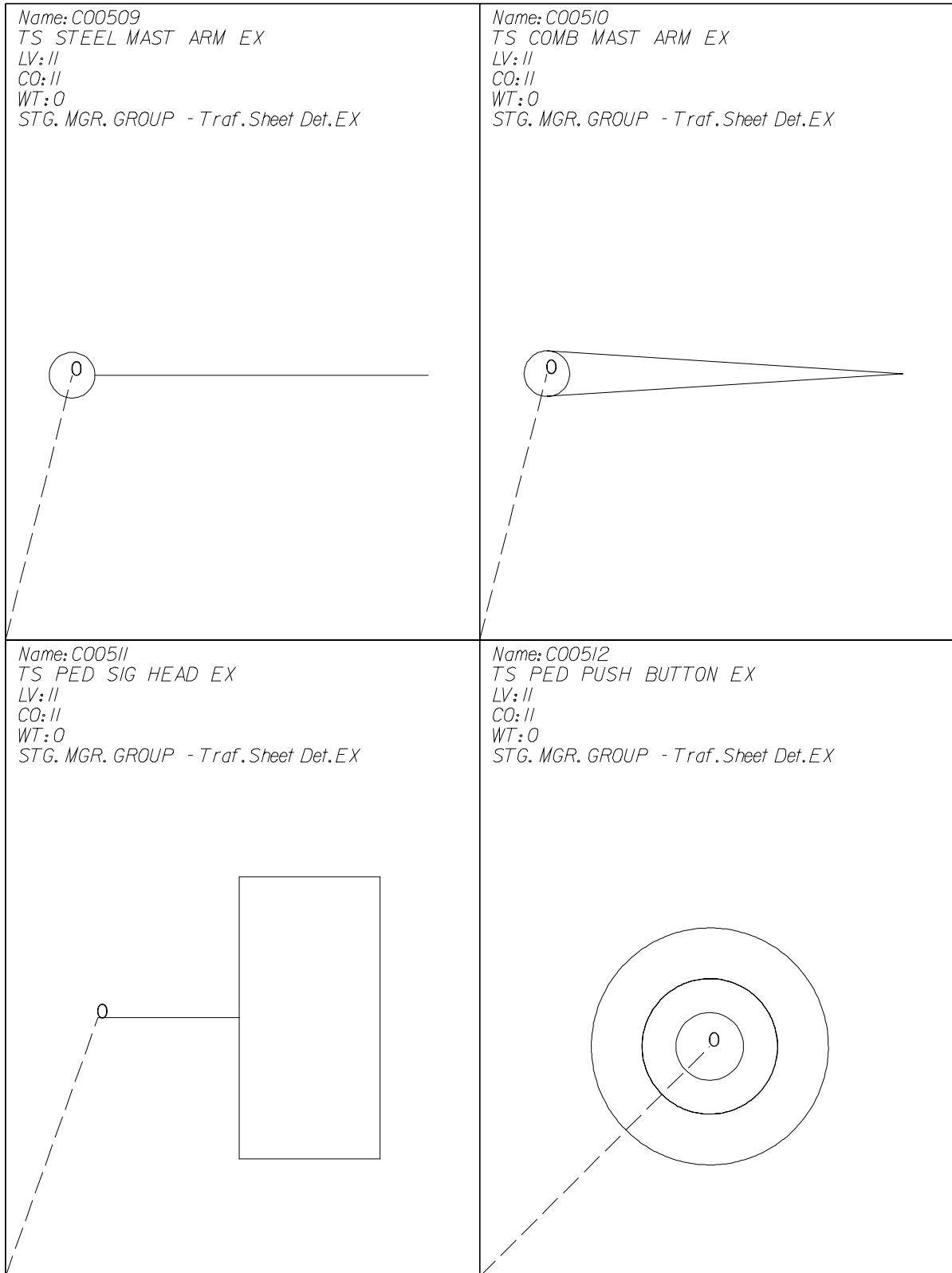


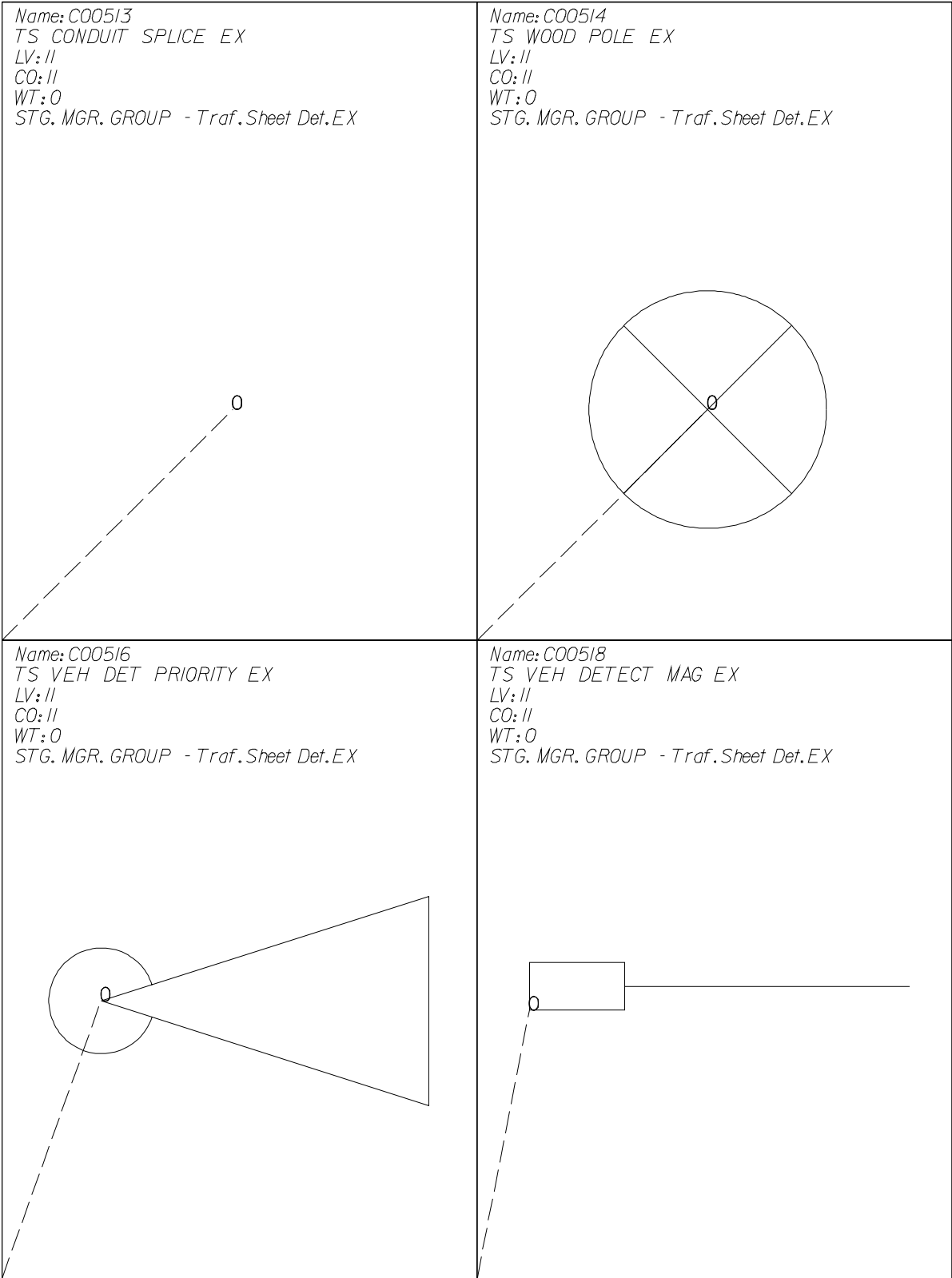
Name: C00507  
TS HEAD W BKPL EX  
LV: II  
CO: II  
WT: 0  
STG. MGR. GROUP - Traf. Sheet Det. EX


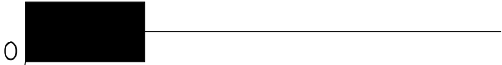
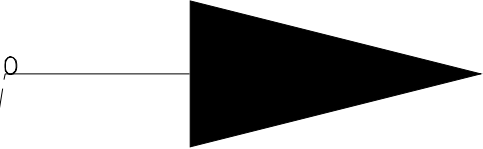
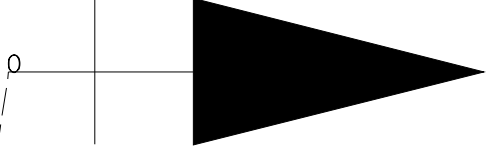


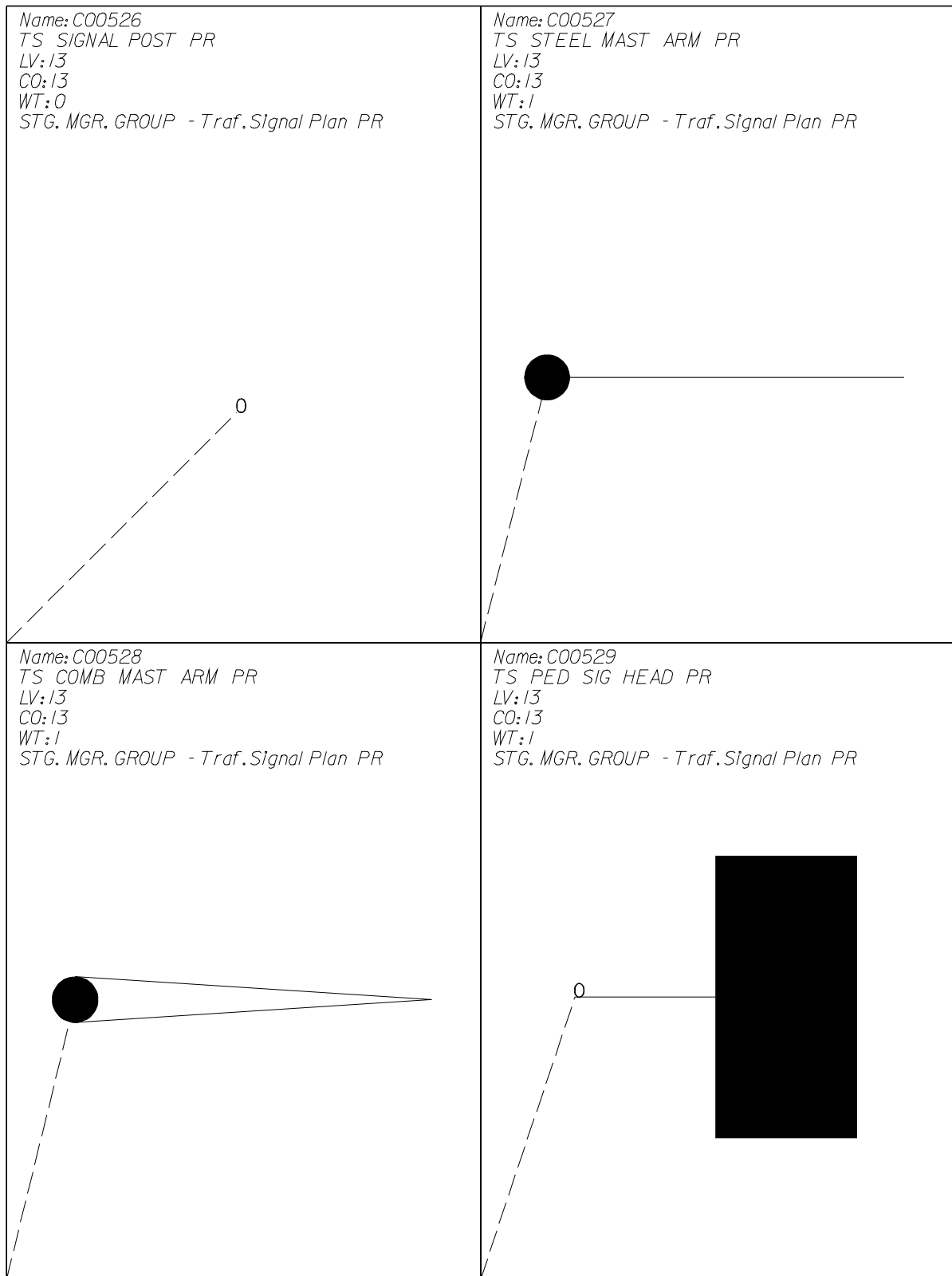
Name: C00508  
TS SIGNAL POST EX  
LV: II  
CO: II  
WT: 0  
STG. MGR. GROUP - Traf. Sheet Det. EX



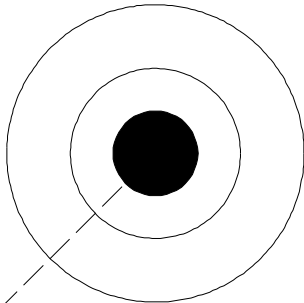
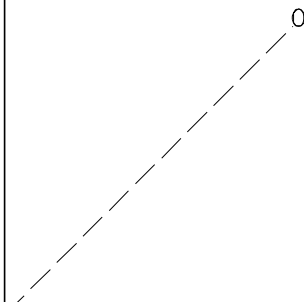
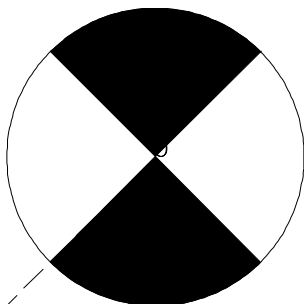
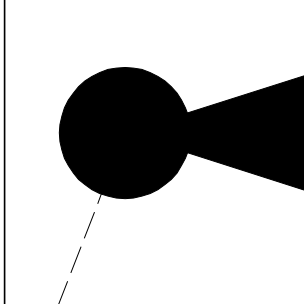








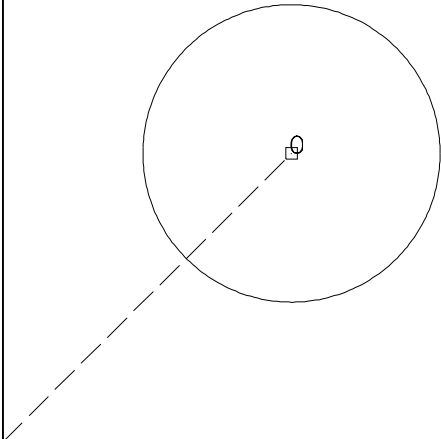

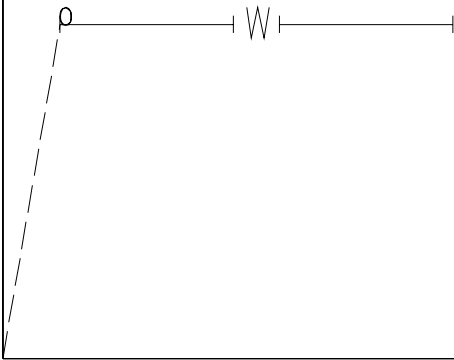
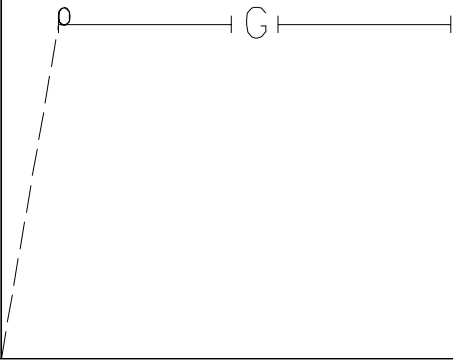
|  |   |
|--|---|
| <p> <i>Name: C00519</i><br/> <i>TS GALV STEEL COND PAT EX</i><br/> <i>LV: 11</i><br/> <i>CO: 11</i><br/> <i>WT: 0</i><br/> <i>STG, MGR, GROUP - Traf. Sheet Det. EX</i> </p>  | <p> <i>Name: C00520</i><br/> <i>TS VEH DETECT MAG PR</i><br/> <i>LV: 13</i><br/> <i>CO: 13</i><br/> <i>WT: 1</i><br/> <i>STG, MGR, GROUP - Traf. Signal Plan PR</i> </p>  |
| <p> <i>Name: C00524</i><br/> <i>TS HEAD PR</i><br/> <i>LV: 13</i><br/> <i>CO: 13</i><br/> <i>WT: 1</i><br/> <i>STG, MGR, GROUP - Traf. Signal Plan PR</i> </p>              | <p> <i>Name: C00525</i><br/> <i>TS HEAD W BACK PR</i><br/> <i>LV: 13</i><br/> <i>CO: 13</i><br/> <i>WT: 1</i><br/> <i>STG, MGR, GROUP - Traf. Signal Plan PR</i> </p>   |









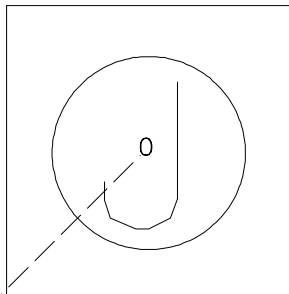
|  |  |
|--|--|
| <p>Name: C00530<br/>TS PED PUSH BUTTON PR<br/>LV: 13<br/>CO: 13<br/>WT: 1<br/>STG. MGR. GROUP - Traf. Signal Plan PR</p>  <p>A circular traffic signal symbol consisting of three concentric circles. The innermost circle is solid black, the middle ring is white, and the outermost ring is black. A dashed line extends from the bottom-left corner of the panel to the center of the symbol.</p> | <p>Name: C00531<br/>TS CONDUIT SPLICE PR<br/>LV: 13<br/>CO: 13<br/>WT: 0<br/>STG. MGR. GROUP - Traf. Signal Plan PR</p>  <p>A circular traffic signal symbol consisting of three concentric circles. The innermost circle is solid black, the middle ring is white, and the outermost ring is black. A dashed line extends from the bottom-left corner of the panel to the center of the symbol.</p>    |
| <p>Name: C00532<br/>TS WOOD POLE PR<br/>LV: 13<br/>CO: 13<br/>WT: 0<br/>STG. MGR. GROUP - Traf. Signal Plan PR</p>  <p>A circular traffic signal symbol consisting of three concentric circles. The innermost circle is solid black, the middle ring is white, and the outermost ring is black. A dashed line extends from the bottom-left corner of the panel to the center of the symbol.</p>     | <p>Name: C00534<br/>TS VEH DET PRIORITY PR<br/>LV: 13<br/>CO: 13<br/>WT: 0<br/>STG. MGR. GROUP - Traf. Signal Plan PR</p>  <p>A circular traffic signal symbol consisting of three concentric circles. The innermost circle is solid black, the middle ring is white, and the outermost ring is black. A dashed line extends from the bottom-left corner of the panel to the center of the symbol.</p> |

|   |   |
|---|---|
| <p>Name: C00550<br/>TEL UNDGND PAT EX<br/>LV: 57<br/>CO: 20<br/>WT: 0<br/>STG. MGR. GROUP - Underground Util.EX</p>   | <p>Name: C00551<br/>ELECTRIC UNDGND PAT EX<br/>LV: 57<br/>CO: 2<br/>WT: 0<br/>STG. MGR. GROUP - Underground Util.EX</p>  |
| <p>Name: C00552<br/>TEL UNDGND PAT PR<br/>LV: 58<br/>CO: 20<br/>WT: 2<br/>STG. MGR. GROUP - Underground Util.PR</p>  | <p>Name: C00553<br/>ELEC UNDGND PAT PR<br/>LV: 58<br/>CO: 2<br/>WT: 2<br/>STG. MGR. GROUP - Underground Util.PR</p>     |

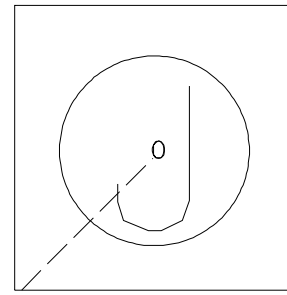
|  |   |
|--|---|
| <p><i>Name: C00554</i><br/><i>CENTERLINE BREAK CIRCLE PR</i><br/><i>LV: 42</i><br/><i>CO: 42</i><br/><i>WT: 0</i><br/><i>STG. MGR. GROUP - N/A</i></p>                 | <p><i>Name: C00555</i><br/><i>CENTERLINE STATION TICK PR</i><br/><i>LV: 42</i><br/><i>CO: 42</i><br/><i>WT: 0</i><br/><i>STG. MGR. GROUP - N/A</i></p>               |
| <p><i>Name: C00557</i><br/><i>WATER PIPE UNDGND PAT EX</i><br/><i>LV: 57</i><br/><i>CO: 31</i><br/><i>WT: 0</i><br/><i>STG. MGR. GROUP - Underground Util.EX</i></p>  | <p><i>Name: C00558</i><br/><i>GAS PIPE UNDGND PAT EX</i><br/><i>LV: 57</i><br/><i>CO: 14</i><br/><i>WT: 0</i><br/><i>STG. MGR. GROUP - Underground Util.EX</i></p>  |

|   |  |
|---|--|
| <p>Name: C00559<br/>OIL PIPE UNDGND PAT EX<br/>LV: 57<br/>CO: 49<br/>WT: 0<br/>STG. MGR. GROUP - Underground Util. EX</p>    | <p>Name: C00560<br/>WATER PIPE UNDGND PAT PR<br/>LV: 58<br/>CO: 31<br/>WT: 2<br/>STG. MGR. GROUP - Underground Util. PR</p>  |
| <p>Name: C00561<br/>GAS PIPE UNDGND PAT PR<br/>LV: 58<br/>CO: 14<br/>WT: 2<br/>STG. MGR. GROUP - Underground Util. PR</p>  | <p>Name: C00562<br/>OIL PIPE UNDGND PAT PR<br/>LV: 58<br/>CO: 49<br/>WT: 2<br/>STG. MGR. GROUP - Underground Util. PR</p>  |

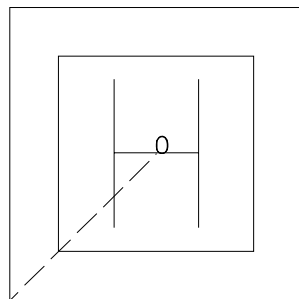
Name: C00564  
TS JUNCTION BOX EX  
LV: 11  
CO: 11  
WT: 0  
STG. MGR. GROUP - Traf. Sheet Det. EX



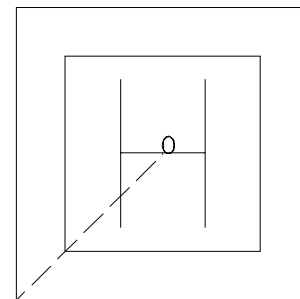
Name: C00565  
LGT JUNCTION BOX EX  
LV: 15  
CO: 15  
WT: 0  
STG. MGR. GROUP - Lighting EX



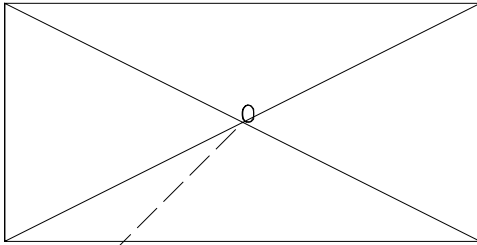
Name: C00567  
TS HDUTY HANDHOLE EX  
LV: 11  
CO: 11  
WT: 0  
STG. MGR. GROUP - Traf. Sheet Det. EX



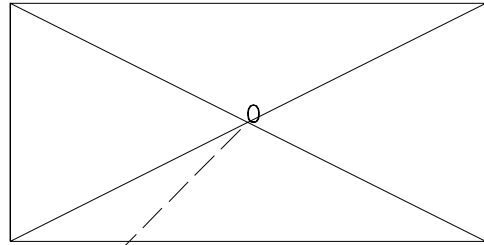
Name: C00568  
LGT HDUTY HANDHOLE EX  
LV: 15  
CO: 15  
WT: 0  
STG. MGR. GROUP - Lighting EX



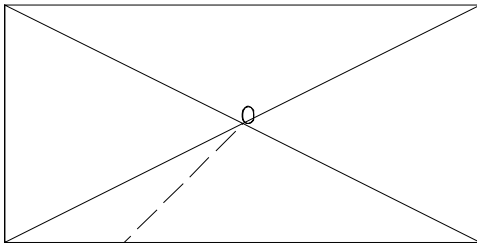
Name: C00569  
UTIL CONTROLLER EX  
LV: 14  
CO: 14  
WT: 0  
STG. MGR. GROUP - Utilities EX



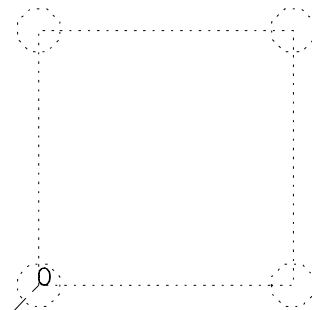
Name: C00571  
TS CONTROLLER EX  
LV: 11  
CO: 11  
WT: 0  
STG. MGR. GROUP - Traf. Sheet Det. EX

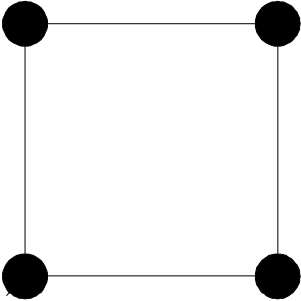

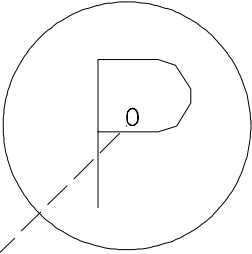



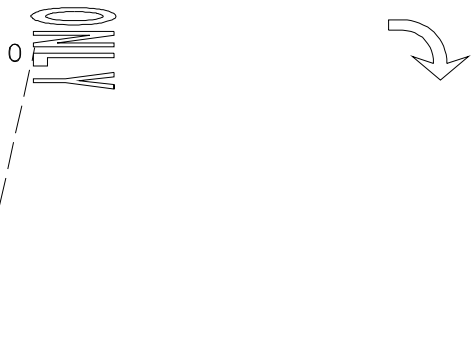
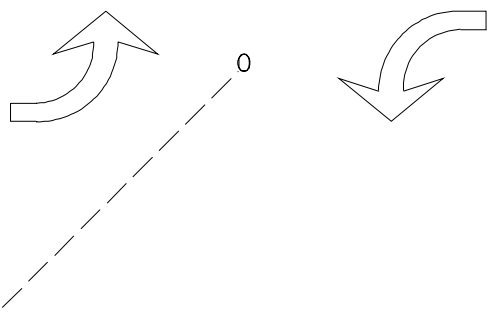
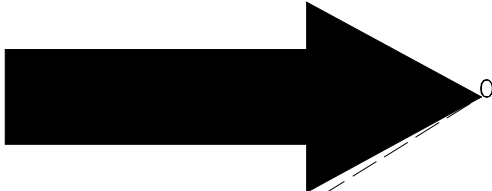
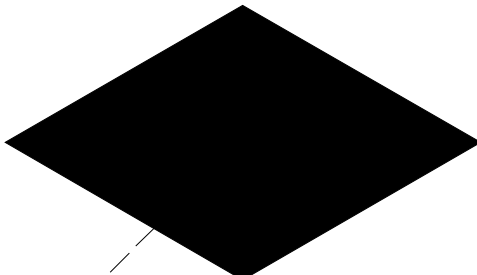
Name: C00572  
LGT CONTROLLER EX  
LV: 15  
CO: 15  
WT: 0  
STG. MGR. GROUP - Lighting EX



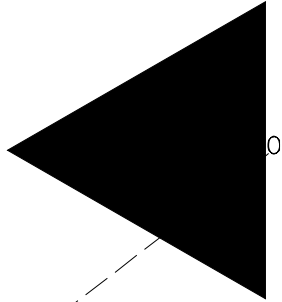
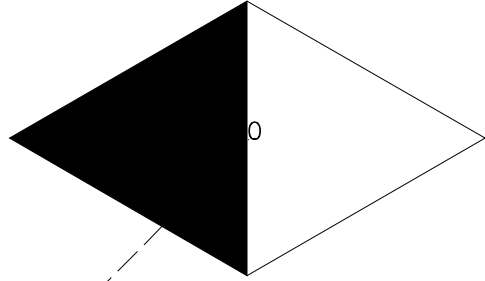
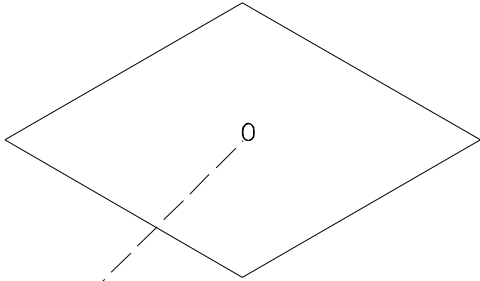
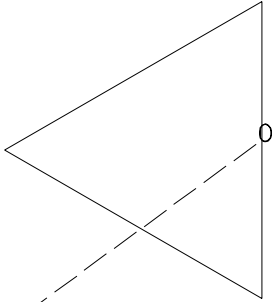
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TS DET LOOP SMALL EX  
LV: 11  
CO: 11  
WT: 0  
STG. MGR. GROUP - Traf. Sheet Det. EX

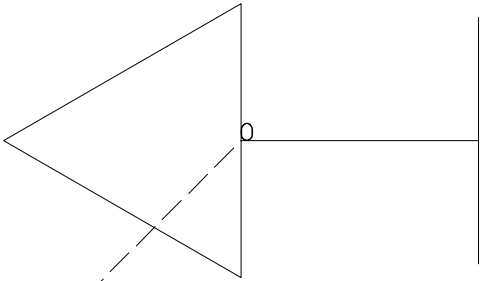

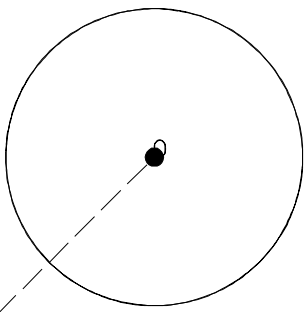
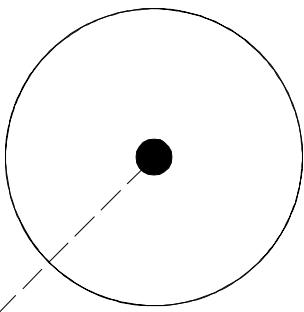


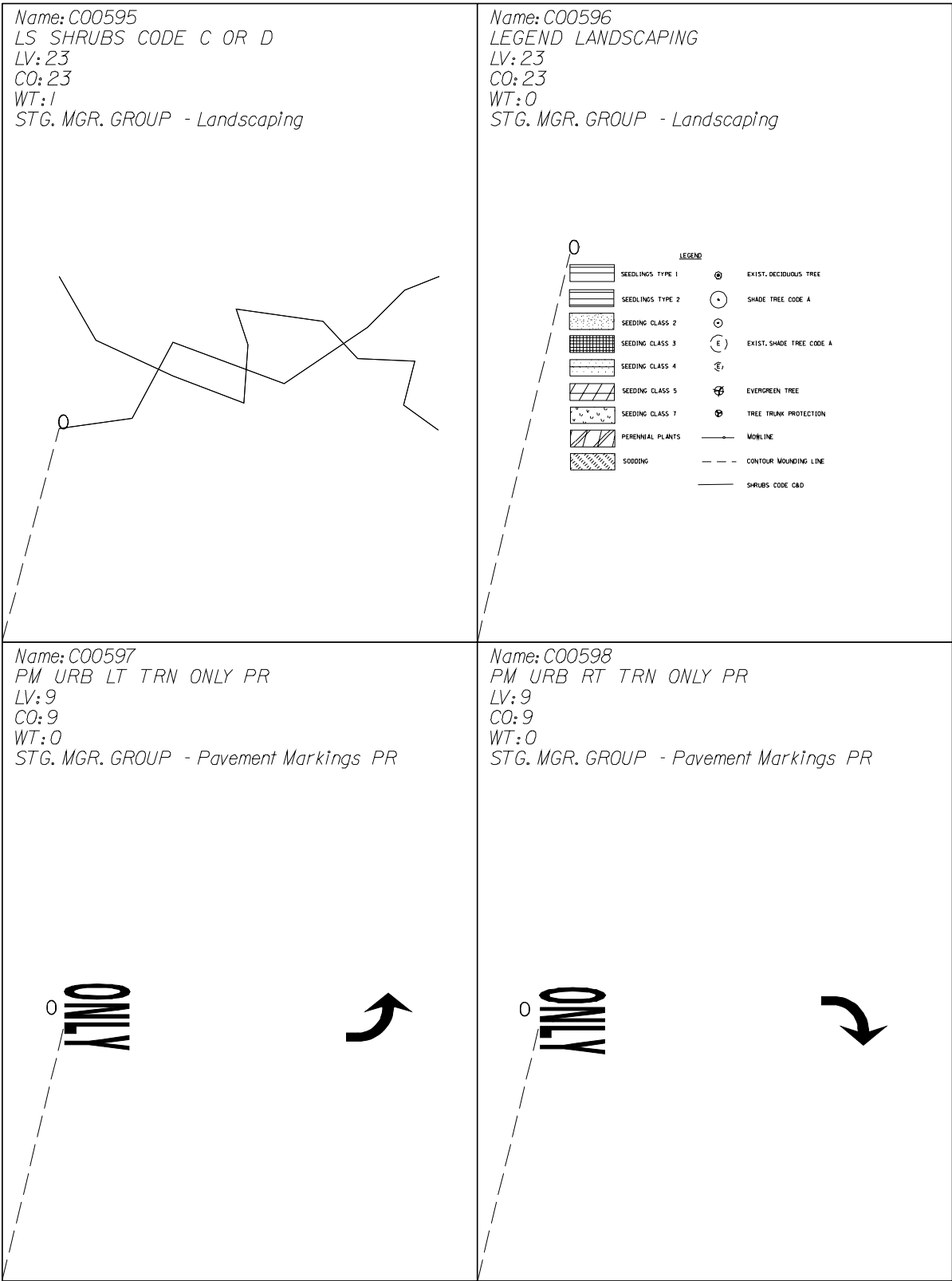
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|--|--|
| <p> <i>Name: C00575</i><br/> <i>TS DET LOOP SMALL PR</i><br/> <i>LV: 13</i><br/> <i>CO: 13</i><br/> <i>WT: 1</i><br/> <i>STG. MGR. GROUP - Traf. Signal Plan PR</i> </p>  | <p> <i>Name: C00576</i><br/> <i>TS DET LOOP LARGE PR</i><br/> <i>LV: 13</i><br/> <i>CO: 13</i><br/> <i>WT: 1</i><br/> <i>STG. MGR. GROUP - Traf. Signal Plan PR</i> </p>   |
| <p> <i>Name: C00577</i><br/> <i>LGT PULL POINT EX</i><br/> <i>LV: 15</i><br/> <i>CO: 15</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Lighting EX</i> </p>            | <p> <i>Name: C00578</i><br/> <i>PM URB LT TRN ONLY EX</i><br/> <i>LV: 7</i><br/> <i>CO: 7</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Pavement Markings EX</i> </p>  |

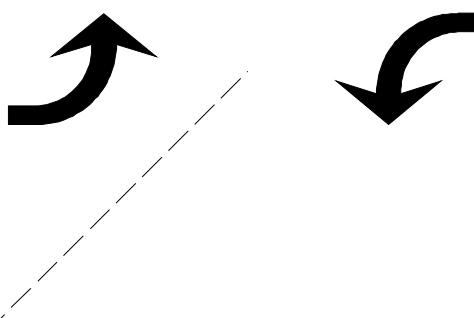
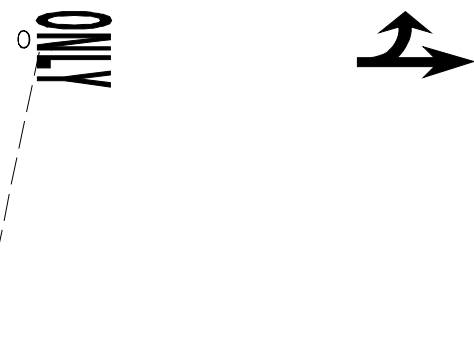
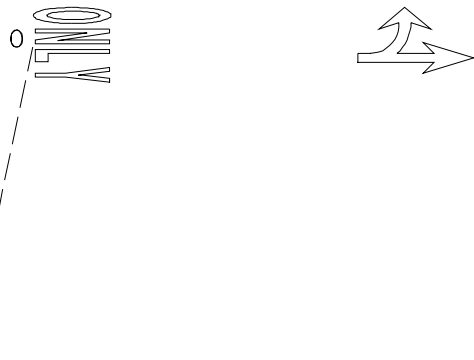
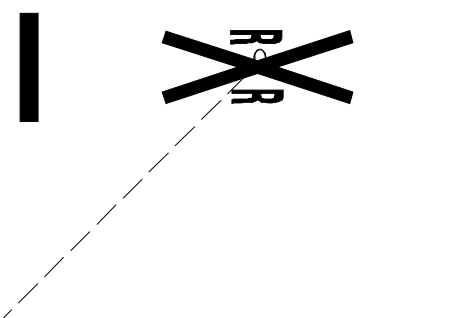
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|---|---|
| <p>Name: C00579<br/>PM URB RT TRN ONLY EX<br/>LV: 7<br/>CO: 7<br/>WT: 0<br/>STG. MGR. GROUP - Pavement Markings EX</p>  | <p>Name: C00580<br/>PM URB TWO WAY LT TRN EX<br/>LV: 7<br/>CO: 7<br/>WT: 0<br/>STG. MGR. GROUP - Pavement Markings EX</p>  |
| <p>Name: C00581<br/>LGT TRAF FLOW ARROW PR<br/>LV: 17<br/>CO: 17<br/>WT: 0<br/>STG. MGR. GROUP - Lighting PR</p>       | <p>Name: C00584<br/>PM RAISED MARKING I EX<br/>LV: 7<br/>CO: 7<br/>WT: 0<br/>STG. MGR. GROUP - Pavement Markings EX</p>   |

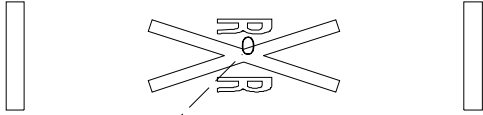

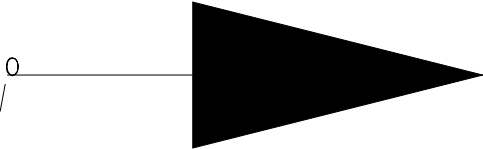
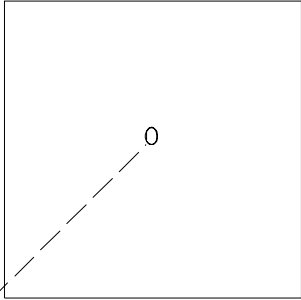


|   |   |
|---|---|
| <p>Name: C00585<br/>PM RAISED MARKING 2 EX<br/>LV: 7<br/>CO: 7<br/>WT: 0<br/>STG. MGR. GROUP - Pavement Markings EX</p>    | <p>Name: C00586<br/>PM RAISED MARKING 3 EX<br/>LV: 7<br/>CO: 7<br/>WT: 0<br/>STG. MGR. GROUP - Pavement Markings EX</p>     |
| <p>Name: C00587<br/>PM RAISED MARKING 4 EX<br/>LV: 7<br/>CO: 7<br/>WT: 0<br/>STG. MGR. GROUP - Pavement Markings EX</p>  | <p>Name: C00588<br/>PM RAISED MARKING 5 EX<br/>LV: 7<br/>CO: 7<br/>WT: 0<br/>STG. MGR. GROUP - Pavement Markings EX</p>  |

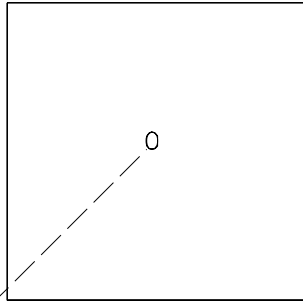
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|--|---|
| <p> <i>Name: C00589</i><br/> <i>PM RAISED MARKING 6 EX</i><br/> <i>LV: 7</i><br/> <i>CO: 7</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Pavement Markings EX</i> </p>  | <p> <i>Name: C00590</i><br/> <i>PM URB LT TURN ONLY PR</i><br/> <i>LV: 9</i><br/> <i>CO: 9</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Pavement Markings PR</i> </p>  |
| <p> <i>Name: C00593</i><br/> <i>LS SHADE TREE CODE A</i><br/> <i>LV: 23</i><br/> <i>CO: 23</i><br/> <i>WT: 2</i><br/> <i>STG. MGR. GROUP - Landscaping</i> </p>         | <p> <i>Name: C00594</i><br/> <i>LS INTERMEDIATE TREE</i><br/> <i>LV: 23</i><br/> <i>CO: 23</i><br/> <i>WT: 2</i><br/> <i>STG. MGR. GROUP - Landscaping</i> </p>         |



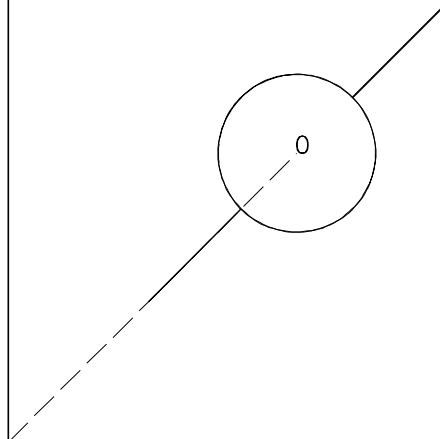
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|---|--|
| <p>Name: C00599<br/> PM URB TWO WAY LT TRN PR<br/> LV: 9<br/> CO: 9<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings PR</p>  | <p>Name: C00600<br/> PM URB COMB LT ONLY PR<br/> LV: 9<br/> CO: 9<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings PR</p>  |
| <p>Name: C00601<br/> PM URB COMB LT ONLY EX<br/> LV: 7<br/> CO: 7<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings EX</p>   | <p>Name: C00602<br/> PM RR CROSSING PR<br/> LV: 9<br/> CO: 9<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings PR</p>      |

|   |   |
|---|---|
| <p> <i>Name: C00603</i><br/> <i>PM RR CROSSING EX</i><br/> <i>LV: 7</i><br/> <i>CO: 7</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Pavement Markings EX</i> </p>          | <p> <i>Name: C00604</i><br/> <i>TS RACEWAY EX</i><br/> <i>LV: 11</i><br/> <i>CO: 11</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Traf. Sheet Det. EX</i> </p>            |
| <p> <i>Name: C00605</i><br/> <i>TS TRAF TEMP SIG HEAD</i><br/> <i>LV: 13</i><br/> <i>CO: 13</i><br/> <i>WT: 1</i><br/> <i>STG. MGR. GROUP - Traf. Signal Plan PR</i> </p>  | <p> <i>Name: C00606</i><br/> <i>TS SIG SECT SMALL PR</i><br/> <i>LV: 13</i><br/> <i>CO: 13</i><br/> <i>WT: 1</i><br/> <i>STG. MGR. GROUP - Traf. Sheet Det. PR</i> </p>  |

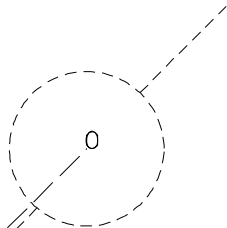
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 TS SIG SECT LARGE PR  
 LV: 13  
 CO: 13  
 WT: 2  
 STG, MGR, GROUP - Traf. Sheet Det. PR



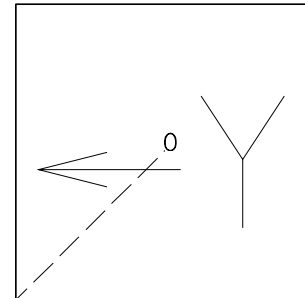
Name: C00609  
 TS CABLE NUMBER PR  
 LV: 13  
 CO: 13  
 WT: 2  
 STG, MGR, GROUP - Traf. Sheet Det. PR



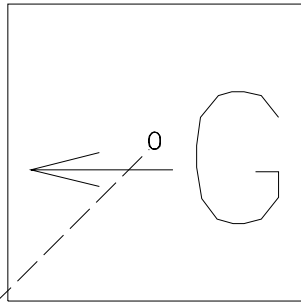
Name: C00610  
 TS CABLE NUMBER EX  
 LV: 11  
 CO: 11  
 WT: 0  
 STG, MGR, GROUP - Traf. Sheet Det. EX



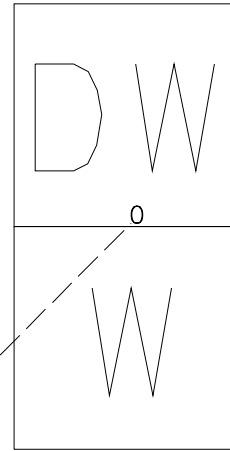
Name: C00612  
 TS LT TURN YELLOW PR  
 LV: 13  
 CO: 13  
 WT: 2  
 STG, MGR, GROUP - Traf. Sheet Det. PR



Name: C006/3  
 TS LT TURN GREEN PR  
 LV: 13  
 CO: 13  
 WT: 1  
 STG. MGR. GROUP - Traf. Sheet Det. PR



Name: C006/5  
 TS WALK DONT WALK PR  
 LV: 13  
 CO: 13  
 WT: 1  
 STG. MGR. GROUP - Traf. Sheet Det. PR



Name: C006/6  
 LEGEND TS PR  
 LV: 13  
 CO: 13  
 WT: 1  
 STG. MGR. GROUP - Traf. Sheet Det. PR

**PROPOSED TRAFFIC SIGNALS LEGEND (SHEET DETAILS)**

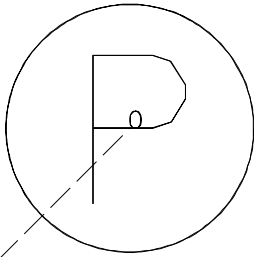
- PROPOSED CABLE NUMBER  
 \* = CABLE NUMBER
- LEFT TURN YELLOW
- LEFT TURN GREEN
- SIGNAL SECTION 200
- SIGNAL SECTION 300
- WALK/DON'T WALK SECTION
- TRAFFIC SIGNAL BACKPLATE

Name: C006/7  
 LEGEND TS EX  
 LV: 11  
 CO: 11  
 WT: 1  
 STG. MGR. GROUP - Traf. Sheet Det. EX

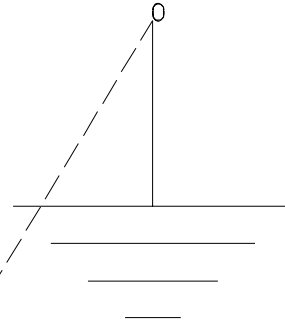
**EXISTING TRAFFIC SIGNALS LEGEND (SHEET DETAILS)**

- EXISTING CABLE NUMBER  
 \* = CABLE NUMBER
- LEFT TURN YELLOW
- LEFT TURN GREEN
- SIGNAL SECTION 200
- SIGNAL SECTION 300
- WALK/DON'T WALK SECTION
- TRAFFIC SIGNAL BACKPLATE

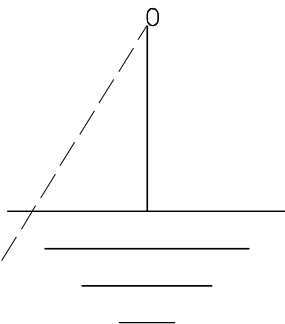
Name: C00618  
LGT PULL POINT PR  
LV: 17  
CO: 17  
WT: 2  
STG. MGR. GROUP - Lighting PR



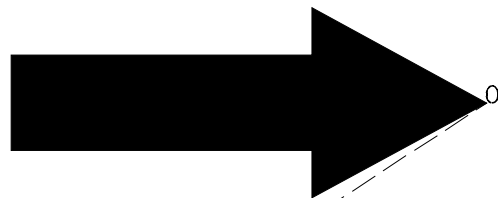
Name: C00621  
LGT ELECTRICAL GND EX  
LV: 15  
CO: 15  
WT: 0  
STG. MGR. GROUP - Lighting EX



Name: C00622  
LGT ELECTRICAL GND PR  
LV: 17  
CO: 17  
WT: 2  
STG. MGR. GROUP - Lighting PR

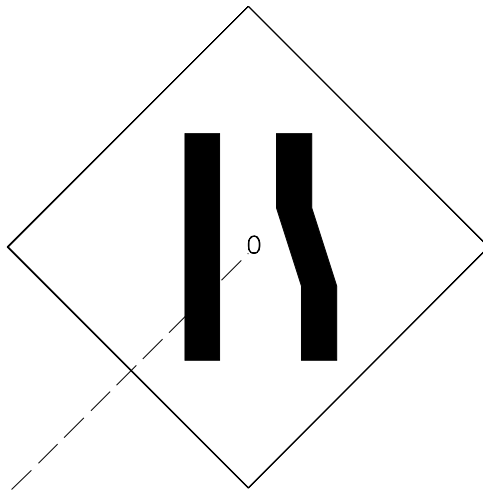


Name: C00623  
LGT THAF FLOW ARROW EX  
LV: 15  
CO: 15  
WT: 0  
STG. MGR. GROUP - Lighting EX

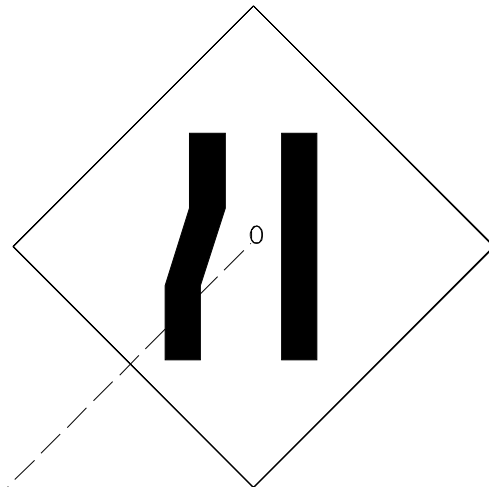




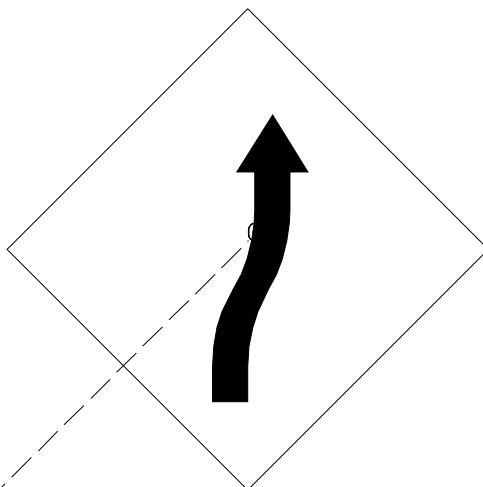
Name: C00626  
 TRANSITION LEFT W4 2R  
 LV: 49  
 CO: 49  
 WT: 2  
 STG. MGR. GROUP - Construction Signing



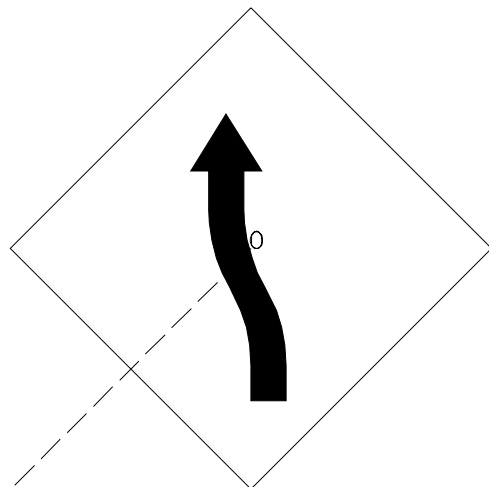
Name: C00627  
 TRANSITION RIGHT W4 2L  
 LV: 49  
 CO: 49  
 WT: 2  
 STG. MGR. GROUP - Construction Signing



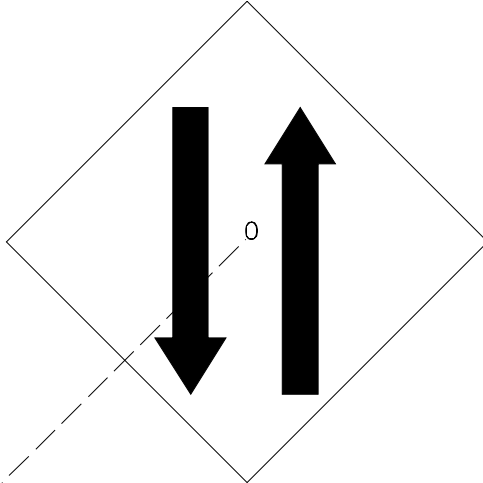
Name: C00628  
 REVERSE RIGHT W1 4R  
 LV: 49  
 CO: 49  
 WT: 1  
 STG. MGR. GROUP - Construction Signing



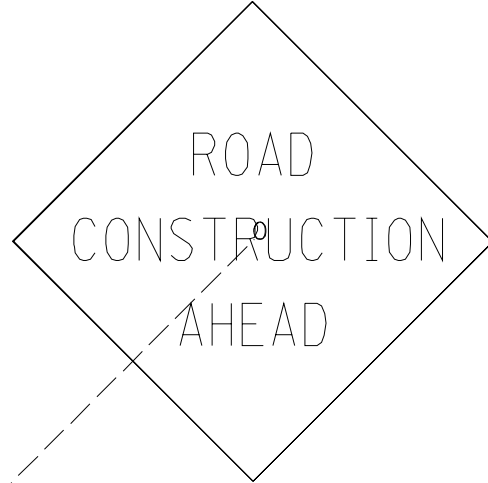
Name: C00629  
 REVERSE LEFT W1 4L  
 LV: 49  
 CO: 49  
 WT: 1  
 STG. MGR. GROUP - Construction Signing



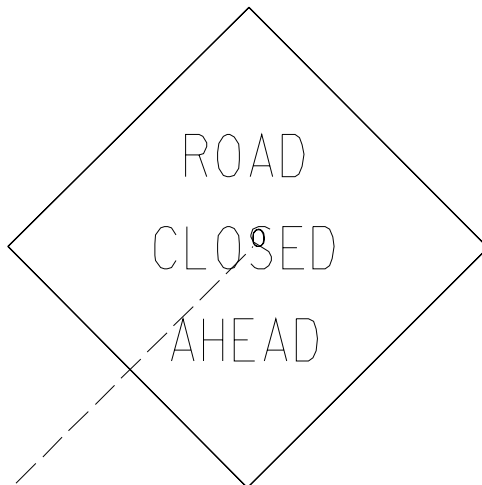
Name: C00630  
TWO WAY TRAFFIC SIGN W6 3  
LV: 49  
CO: 49  
WT: 1  
STG. MGR. GROUP - Construction Signing



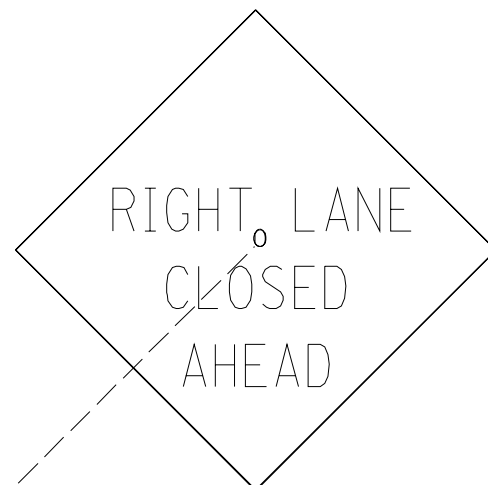
Name: C00631  
RD CONST AHD W20 10  
LV: 49  
CO: 49  
WT: 2  
STG. MGR. GROUP - Construction Signing



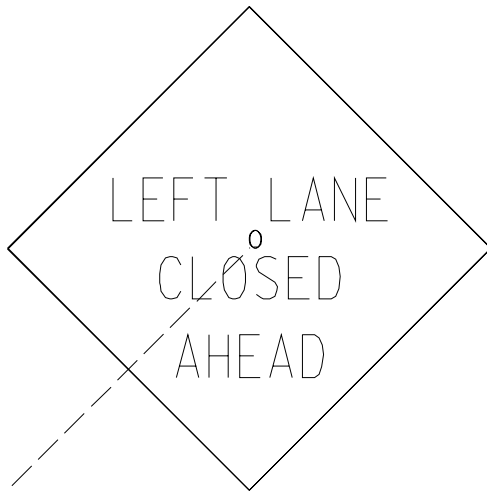
Name: C00632  
ROAD CLSD AHD W20 10  
LV: 49  
CO: 49  
WT: 2  
STG. MGR. GROUP - Construction Signing



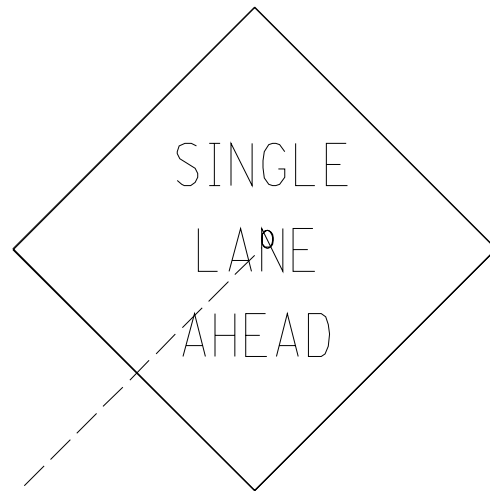
Name: C00633  
RT LN CLSD AHD W20 R0  
LV: 49  
CO: 49  
WT: 2  
STG. MGR. GROUP - Construction Signing



Name: C00634  
LFT LN CLSD AHD W20 5L  
LV: 49  
CO: 49  
WT: 2  
STG. MGR. GROUP - Construction Signing



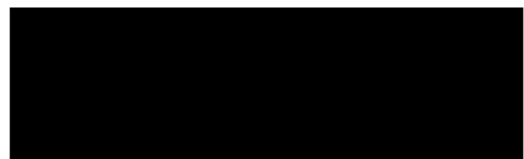
Name: C00635  
SINGLE LANE AHD  
LV: 49  
CO: 49  
WT: 2  
STG. MGR. GROUP - Construction Signing



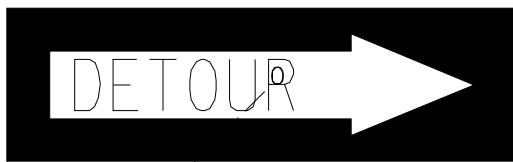
Name: C00636  
ROAD CLOSED RII 2  
LV: 49  
CO: 49  
WT: 2  
STG. MGR. GROUP - Construction Signing



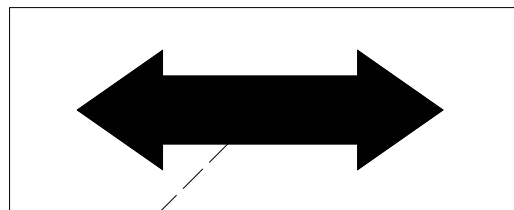
Name: C00637  
ONE WAY R6 1R  
LV: 49  
CO: 49  
WT: 0  
STG. MGR. GROUP - Construction Signing



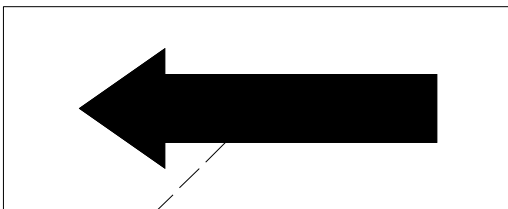
Name: C00638  
 DETOUR M4 10R 0  
 LV: 49  
 CO: 49  
 WT: 0  
 STG. MGR. GROUP - Construction Signing



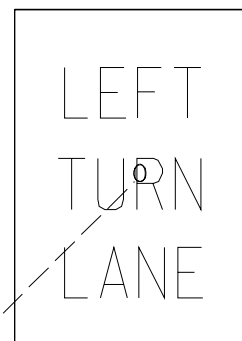
Name: C00639  
 LARGE ARROW TWO WAY W17 0  
 LV: 49  
 CO: 49  
 WT: 1  
 STG. MGR. GROUP - Construction Signing



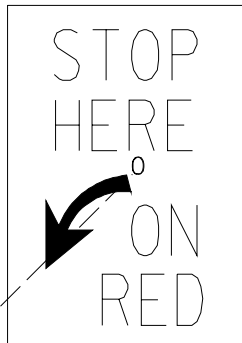
Name: C00640  
 LARGE ARROW ONE WAY W16 0  
 LV: 49  
 CO: 49  
 WT: 1  
 STG. MGR. GROUP - Construction Signing



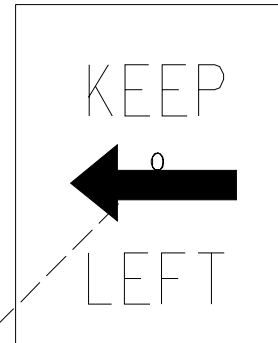
Name: C00641  
 LFT TRN LANE R3 L100  
 LV: 49  
 CO: 49  
 WT: 2  
 STG. MGR. GROUP - Construction Signing



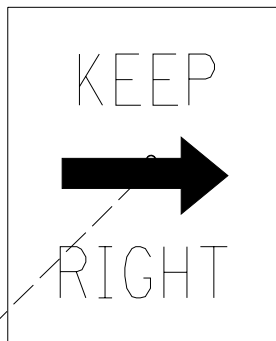
Name: C00642  
 STOP HERE ON RED R10 6AL  
 LV: 49  
 CO: 49  
 WT: /  
 STG. MGR. GROUP - Construction Signing



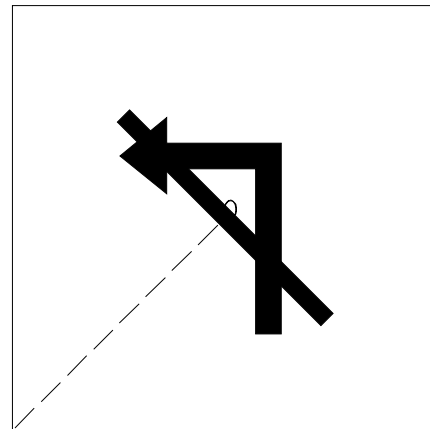
Name: C00643  
 KEEP LEFT R47AL  
 LV: 49  
 CO: 49  
 WT: /  
 STG. MGR. GROUP - Construction Signing



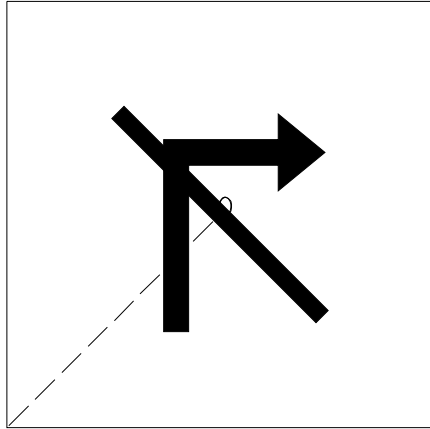
Name: C00644  
 KEEP RIGHT R47 AR  
 LV: 49  
 CO: 49  
 WT: /  
 STG. MGR. GROUP - Construction Signing



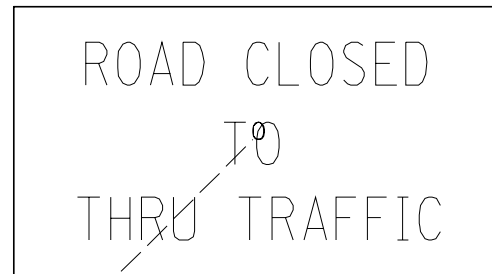
Name: C00645  
 NO LEFT TURN R3 2  
 LV: 49  
 CO: 49  
 WT: /  
 STG. MGR. GROUP - Construction Signing



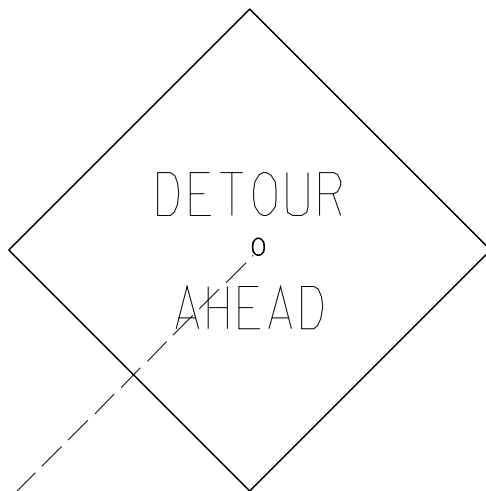
Name: C00646  
 NO RIGHT TURN R3 1  
 LV: 49  
 CO: 49  
 WT: 1  
 STG. MGR. GROUP - Construction Signing



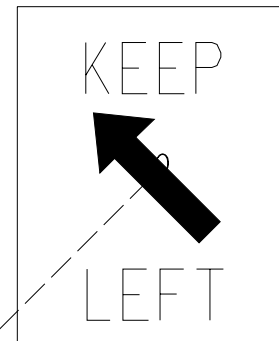
Name: C00647  
 ROAD CLSD TO TRAF R11 4  
 LV: 49  
 CO: 49  
 WT: 2  
 STG. MGR. GROUP - Construction Signing


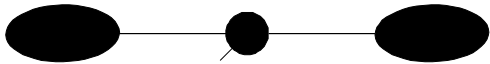
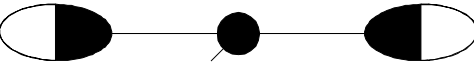
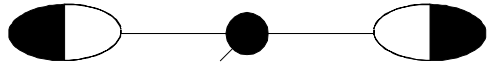


Name: C00648  
 DETOUR AHD W20 2  
 LV: 49  
 CO: 49  
 WT: 2  
 STG. MGR. GROUP - Construction Signing

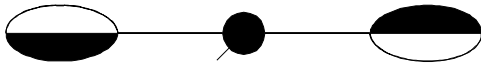


Name: C00649  
 KEEP LEFT R47BL  
 LV: 49  
 CO: 49  
 WT: 1  
 STG. MGR. GROUP - Construction Signing

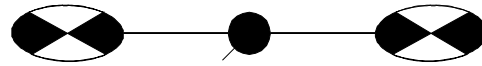


|   |  |
|---|--|
| <p>Name: C00650<br/> KEEP RIGHT R47BR<br/> LV: 49<br/> CO: 49<br/> WT: 1<br/> STG. MGR. GROUP - Construction Signing</p>   | <p>Name: C00651<br/> LGT LIGHT UNIT TWIN 1 PR<br/> LV: 17<br/> CO: 17<br/> WT: 2<br/> STG. MGR. GROUP - Lighting PR</p>    |
| <p>Name: C00652<br/> LGT LIGHT UNIT TWIN 2 PR<br/> LV: 17<br/> CO: 17<br/> WT: 2<br/> STG. MGR. GROUP - Lighting PR</p>  | <p>Name: C00653<br/> LGT LIGHT UNIT TWIN 3 PR<br/> LV: 17<br/> CO: 17<br/> WT: 2<br/> STG. MGR. GROUP - Lighting PR</p>  |

Name: C00654  
 LGT LIGHT UNIT TWIN 4 PR  
 LV: 17  
 CO: 17  
 WT: 2  
 STG. MGR. GROUP - Lighting PR



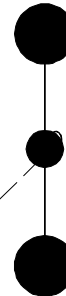
Name: C00655  
 LGT LIGHT UNIT TWIN 5 PR  
 LV: 17  
 CO: 17  
 WT: 2  
 STG. MGR. GROUP - Lighting PR



Name: C00656  
 LGT HIGH MAST POLE 1 PR  
 LV: 17  
 CO: 17  
 WT: 2  
 STG. MGR. GROUP - Lighting PR

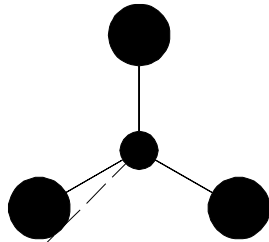


Name: C00657  
 LGT HIGH MAST POLE 2 PR  
 LV: 17  
 CO: 17  
 WT: 2  
 STG. MGR. GROUP - Lighting PR

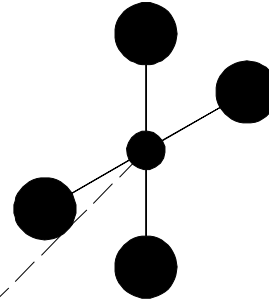




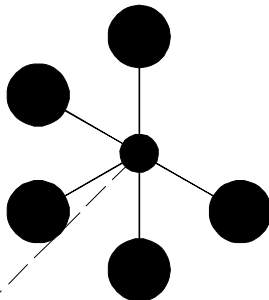
Name: C00658  
LGT HIGH MAST POLE 3 PR  
LV: 17  
CO: 17  
WT: 2  
STG. MGR. GROUP - Lighting PR



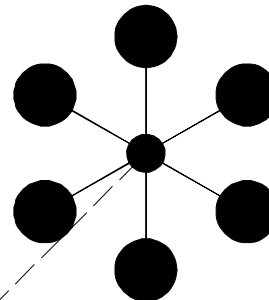
Name: C00659  
LGT HIGH MAST POLE 4 PR  
LV: 17  
CO: 17  
WT: 2  
STG. MGR. GROUP - Lighting PR


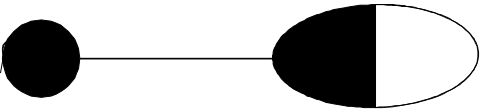
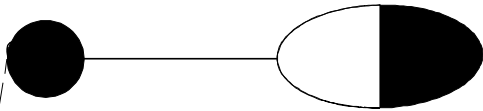
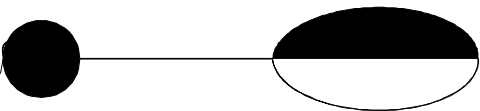


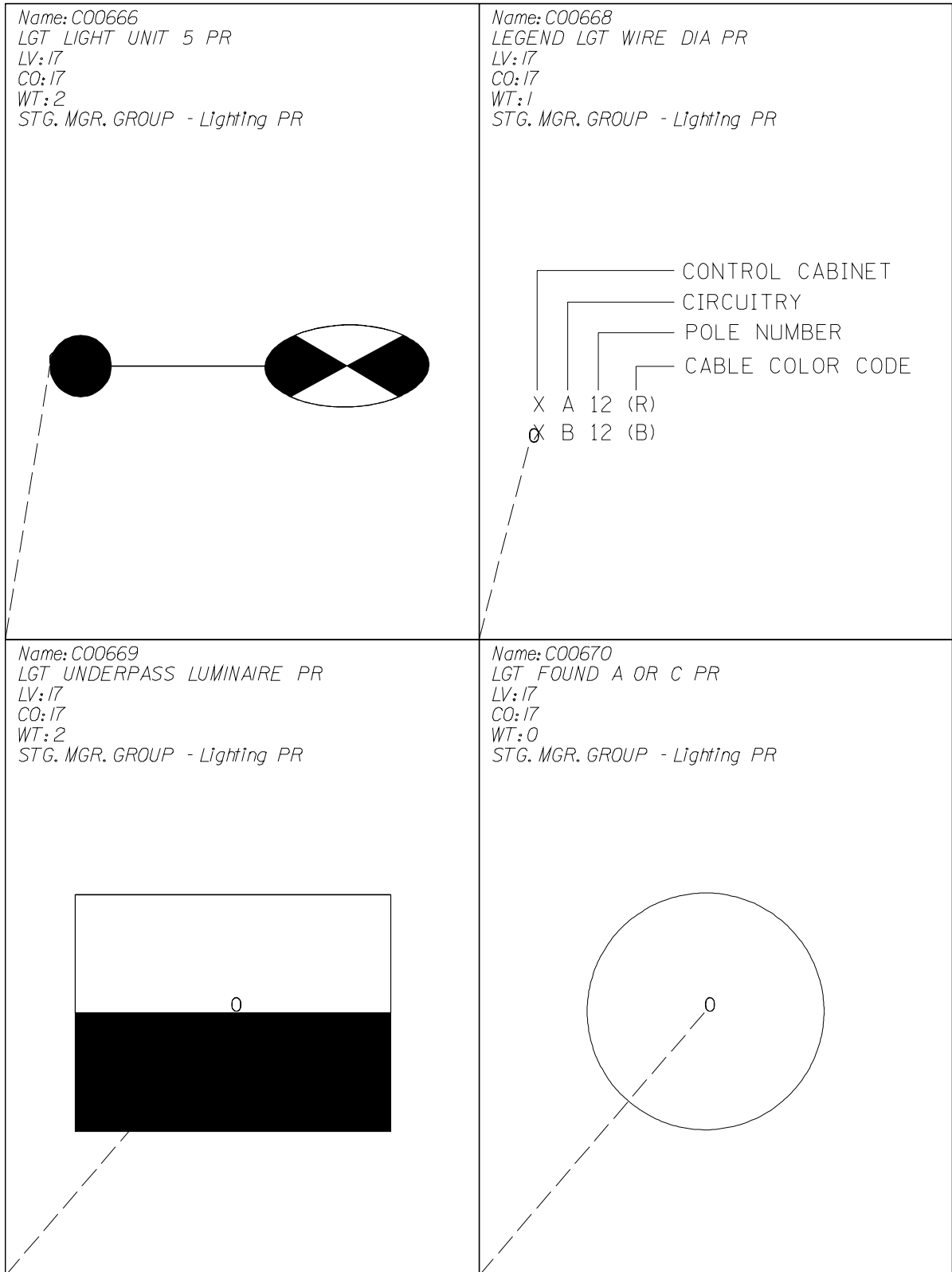
Name: C00660  
LGT HIGH MAST POLE 5 PR  
LV: 17  
CO: 17  
WT: 2  
STG. MGR. GROUP - Lighting PR


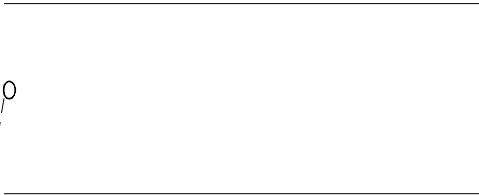

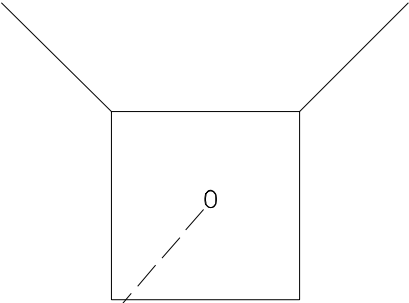


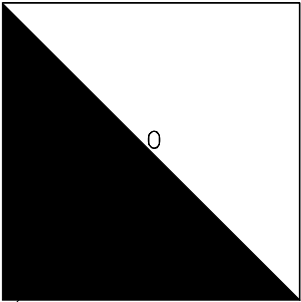
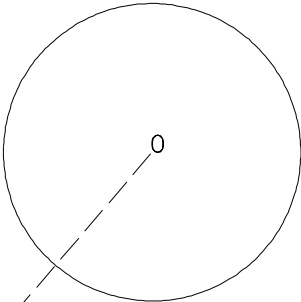
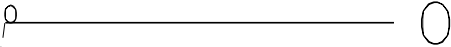
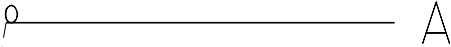
Name: C00661  
LGT HIGH MAST POLE 6 PR  
LV: 17  
CO: 17  
WT: 2  
STG. MGR. GROUP - Lighting PR



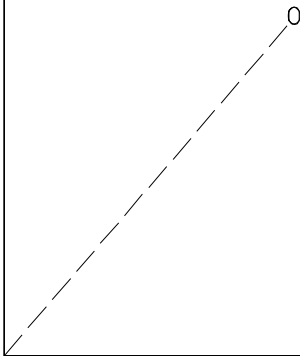
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|--|---|
| <p>Name: C00662<br/> LGT LIGHT UNIT 1 PR<br/> LV: 17<br/> CO: 17<br/> WT: 2<br/> STG. MGR. GROUP - Lighting PR</p>    | <p>Name: C00663<br/> LGT LIGHT UNIT 2 PR<br/> LV: 17<br/> CO: 17<br/> WT: 2<br/> STG. MGR. GROUP - Lighting PR</p>    |
| <p>Name: C00664<br/> LGT LIGHT UNIT 3 PR<br/> LV: 17<br/> CO: 17<br/> WT: 2<br/> STG. MGR. GROUP - Lighting PR</p>  | <p>Name: C00665<br/> LGT LIGHT UNIT 4 PR<br/> LV: 17<br/> CO: 17<br/> WT: 2<br/> STG. MGR. GROUP - Lighting PR</p>  |



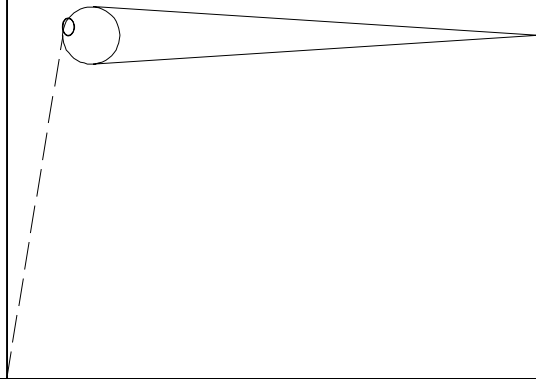
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|---|---|
| <p>Name: C00671<br/>LGT COMB MAST ARM PR<br/>LV: 17<br/>CO: 17<br/>WT: 2<br/>STG. MGR. GROUP - Lighting PR</p>     | <p>Name: C00673<br/>CONDUIT PR<br/>LV: 17<br/>CO: 17<br/>WT: 0<br/>STG. MGR. GROUP - Lighting PR</p>              |
| <p>Name: C00677<br/>CBL IN DCT W GND I PR<br/>LV: 17<br/>CO: 17<br/>WT: 0<br/>STG. MGR. GROUP - Lighting PR</p>  | <p>Name: C00680<br/>UTIL WATER METER EX<br/>LV: 14<br/>CO: 14<br/>WT: 0<br/>STG. MGR. GROUP - Utilities EX</p>  |

|   |  |
|---|--|
| <p>Name: C00681<br/>UTIL HANDHOLE PR<br/>LV: 44<br/>CO: 44<br/>WT: 0<br/>STG. MGR. GROUP - Utilities PR</p>        | <p>Name: C00682<br/>UTIL BBOX WMETER VBOX EX<br/>LV: 14<br/>CO: 14<br/>WT: 0<br/>STG. MGR. GROUP - Utilities EX</p>  |
| <p>Name: C00683<br/>BURIED CABLE PAT 1 PR<br/>LV: 17<br/>CO: 17<br/>WT: 2<br/>STG. MGR. GROUP - Lighting PR</p>  | <p>Name: C00687<br/>BURIED CABLE PAT 1 PR<br/>LV: 17<br/>CO: 17<br/>WT: 2<br/>STG. MGR. GROUP - Lighting PR</p>    |

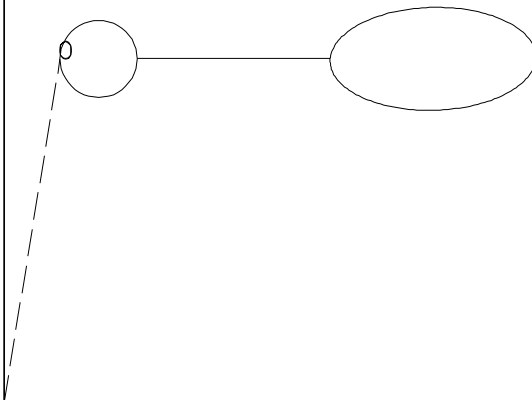
Name: C00691  
UTIL BBOX WMETER VBOX PR  
LV: 44  
CO: 44  
WT: 0  
STG. MGR. GROUP - Utilities PR



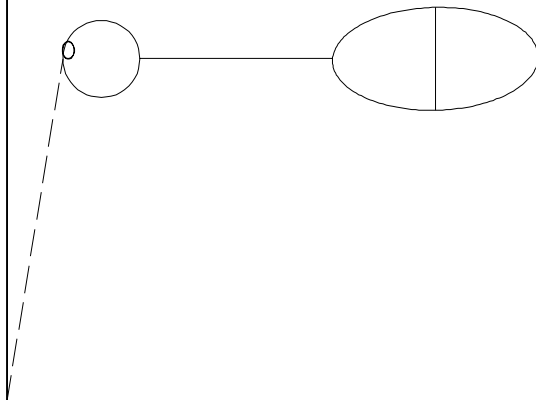
Name: C00692  
LGT COMB MAST ARM EX  
LV: 15  
CO: 15  
WT: 0  
STG. MGR. GROUP - Lighting EX

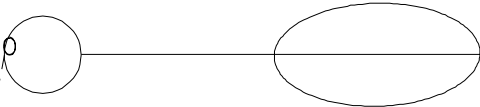
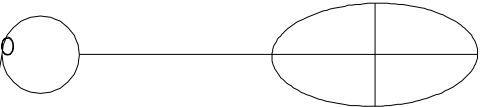
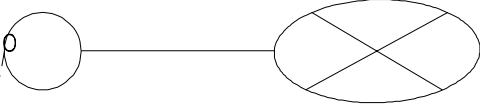
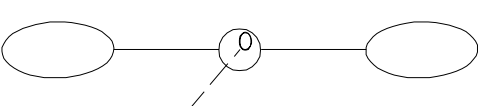


Name: C00693  
LGT LIGHT UNIT 1 EX  
LV: 15  
CO: 15  
WT: 0  
STG. MGR. GROUP - Lighting EX

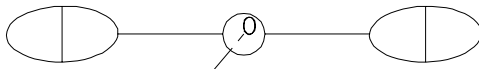


Name: C00694  
LGT LIGHT UNIT 2 EX  
LV: 15  
CO: 15  
WT: 0  
STG. MGR. GROUP - Lighting EX



|   |   |
|---|---|
| <p>Name: C00695<br/>LGT LIGHT UNIT 3 EX<br/>LV: 15<br/>CO: 15<br/>WT: 0<br/>STG. MGR. GROUP - Lighting EX</p>    | <p>Name: C00696<br/>LGT LIGHT UNIT 4 EX<br/>LV: 15<br/>CO: 15<br/>WT: 0<br/>STG. MGR. GROUP - Lighting EX</p>         |
| <p>Name: C00697<br/>LGT LIGHT UNIT 5 EX<br/>LV: 15<br/>CO: 15<br/>WT: 0<br/>STG. MGR. GROUP - Lighting EX</p>  | <p>Name: C00698<br/>LGT LIGHT UNIT TWIN 1 EX<br/>LV: 15<br/>CO: 15<br/>WT: 0<br/>STG. MGR. GROUP - Lighting EX</p>  |

Name: C00699  
LGT LIGHT UNIT TWIN 2 EX  
LV: 15  
CO: 15  
WT: 0  
STG. MGR. GROUP - Lighting EX



Name: C00700  
LGT LIGHT UNIT TWIN 3 EX  
LV: 15  
CO: 15  
WT: 0  
STG. MGR. GROUP - Lighting EX



Name: C00701  
LGT LIGHT UNIT TWIN 4 EX  
LV: 15  
CO: 15  
WT: 0  
STG. MGR. GROUP - Lighting EX

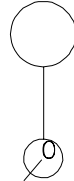


Name: C00702  
LGT LIGHT UNIT TWIN 5 EX  
LV: 15  
CO: 15  
WT: 0  
STG. MGR. GROUP - Lighting EX

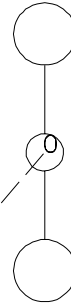




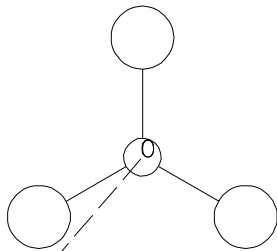
Name: C00703  
LGT HIGH MAST POLE 1 EX  
LV: 15  
CO: 15  
WT: 0  
STG. MGR. GROUP - Lighting EX



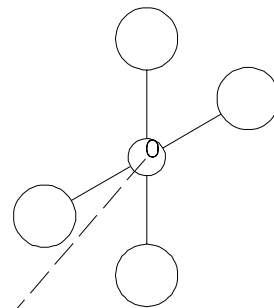
Name: C00704  
LGT HIGH MAST POLE 2 EX  
LV: 15  
CO: 15  
WT: 0  
STG. MGR. GROUP - Lighting EX



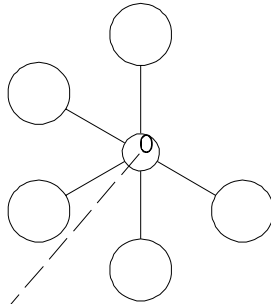
Name: C00705  
LGT HIGH MAST POLE 3 EX  
LV: 15  
CO: 15  
WT: 0  
STG. MGR. GROUP - Lighting EX



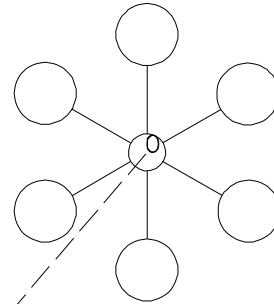
Name: C00706  
LGT HIGH MAST POLE 4 EX  
LV: 15  
CO: 15  
WT: 0  
STG. MGR. GROUP - Lighting EX



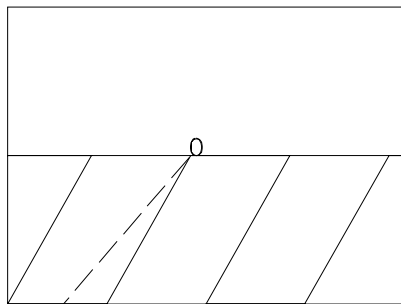
Name: C00707  
 LGT HIGH MAST POLE 5 EX  
 LV: 15  
 CO: 15  
 WT: 0  
 STG. MGR. GROUP - Lighting EX



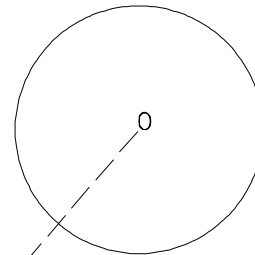
Name: C00708  
 LGT HIGH MAST POLE 6 EX  
 LV: 15  
 CO: 15  
 WT: 0  
 STG. MGR. GROUP - Lighting EX

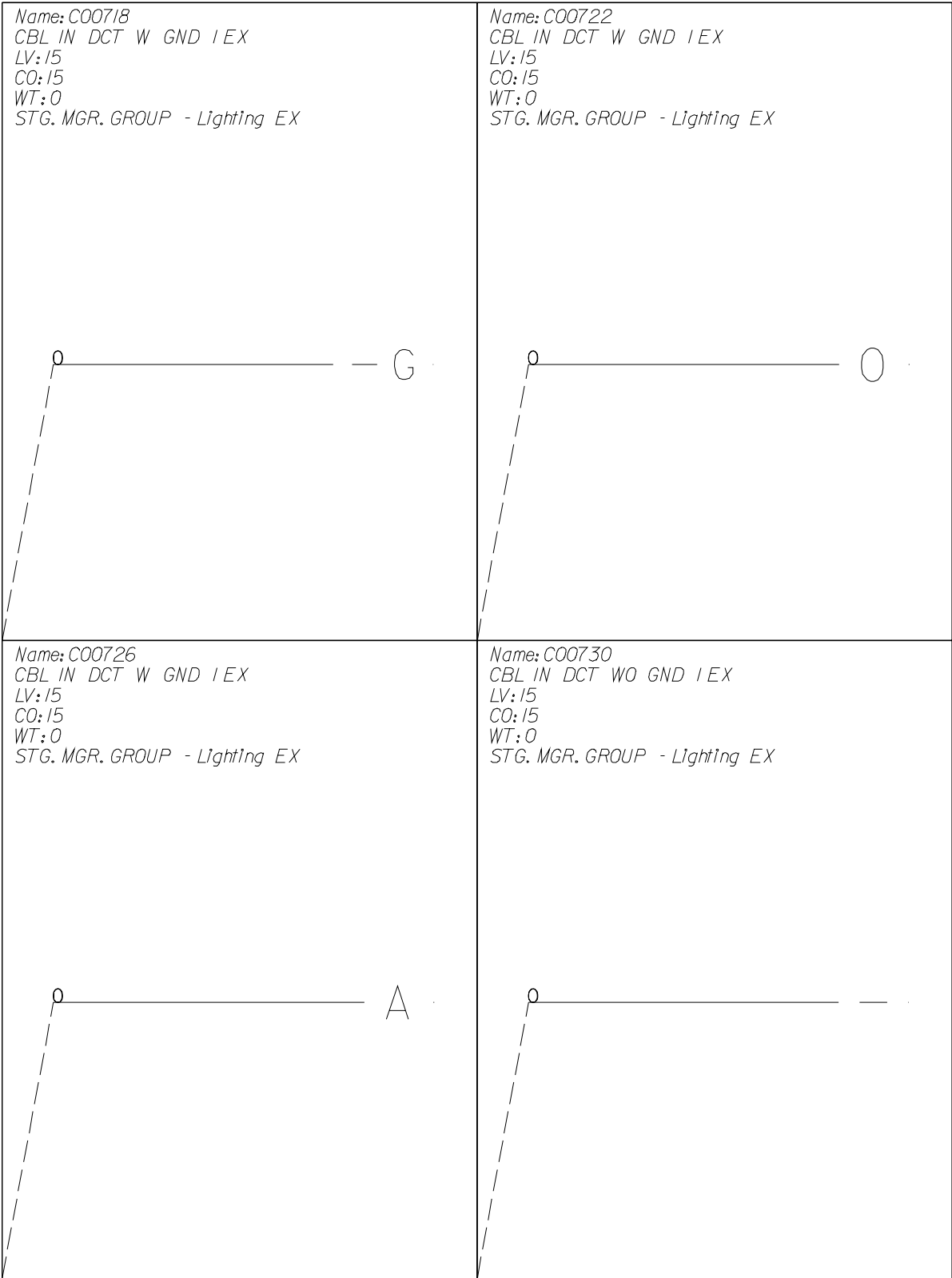


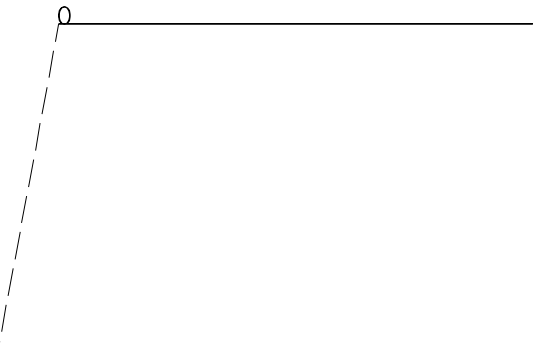
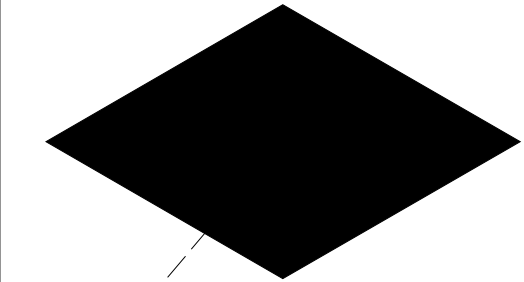
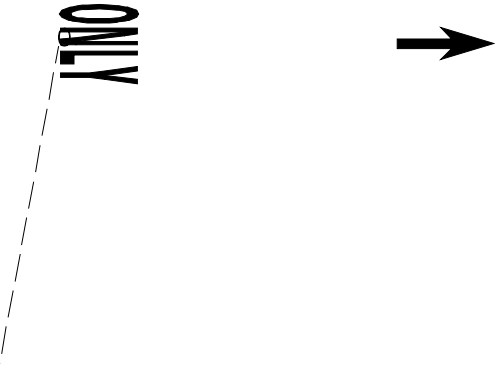
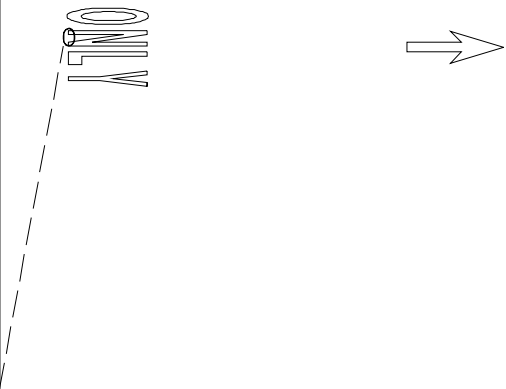
Name: C00709  
 LGT UNDERPASS LUMINAIRE EX  
 LV: 15  
 CO: 15  
 WT: 0  
 STG. MGR. GROUP - Lighting EX

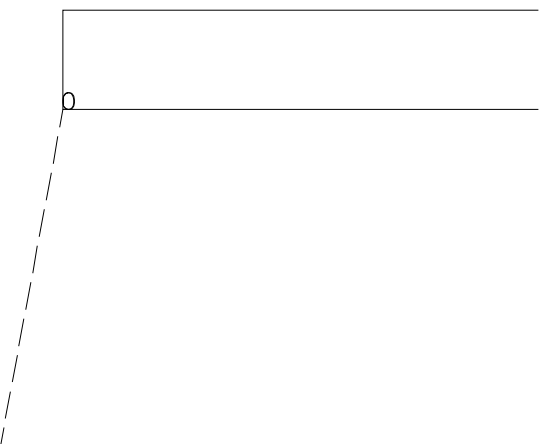
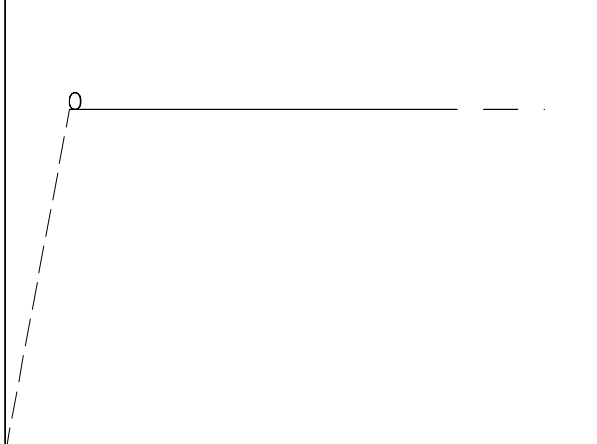





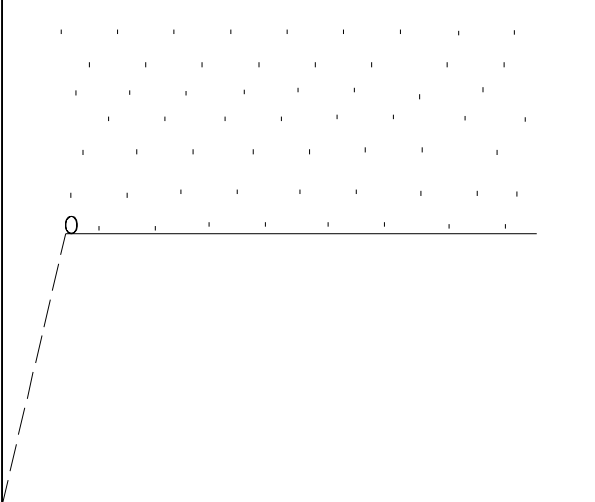

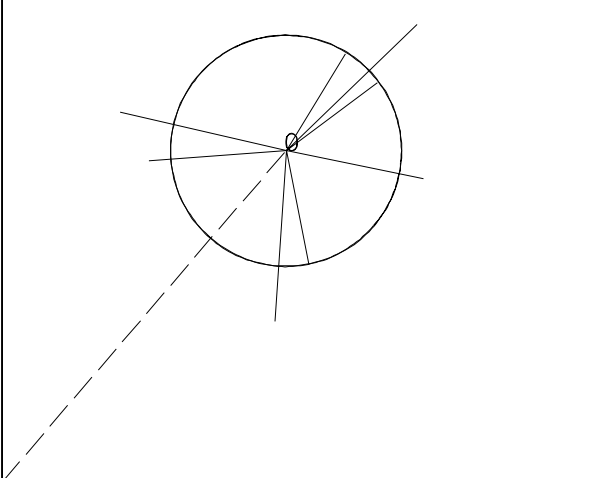
Name: C00710  
 LGT FOUND A OR C EX  
 LV: 15  
 CO: 15  
 WT: 0  
 STG. MGR. GROUP - Lighting EX

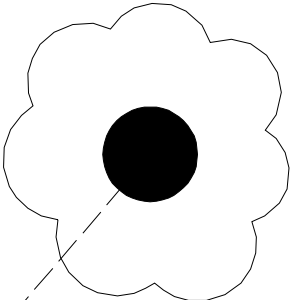
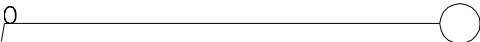
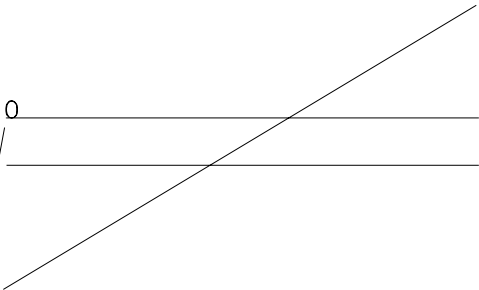





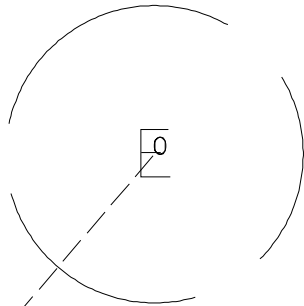
|  |   |
|--|---|
| <p>Name: C00738<br/>PM SH DIAG PAT PR<br/>LV: 9<br/>CO: 9<br/>WT: 2<br/>STG. MGR. GROUP - Pavement Markings PR</p>     | <p>Name: C00739<br/>PM MARKR AMBR 2 W PR<br/>LV: 9<br/>CO: 9<br/>WT: 0<br/>STG. MGR. GROUP - Pavement Markings PR</p>   |
| <p>Name: C00740<br/>PM URB THRU ONLY PR<br/>LV: 9<br/>CO: 9<br/>WT: 0<br/>STG. MGR. GROUP - Pavement Markings PR</p>  | <p>Name: C00741<br/>PM URB THRU ONLY EX<br/>LV: 7<br/>CO: 7<br/>WT: 0<br/>STG. MGR. GROUP - Pavement Markings EX</p>  |

|  |  |
|--|--|
| <p>Name: C00742<br/>TS RACEWAY PR<br/>LV: 13<br/>CO: 13<br/>WT: 1<br/>STG. MGR. GROUP - Traf. Signal Plan PR</p>   | <p>Name: C00751<br/>CBL IN DCT WO GND I PR<br/>LV: 17<br/>CO: 17<br/>WT: 2<br/>STG. MGR. GROUP - Lighting PR</p>  |
| <p>Name: C00755<br/>LS SEEDLING TYPE I PAT<br/>LV: 23<br/>CO: 23<br/>WT: 0<br/>STG. MGR. GROUP - Landscaping</p>  | <p>Name: C00756<br/>LS HATCHING PATTERN<br/>LV: 23<br/>CO: 23<br/>WT: 0<br/>STG. MGR. GROUP - Landscaping</p>    |

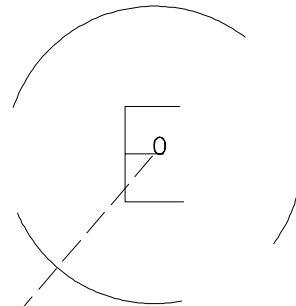
|   |   |
|---|---|
| <p>Name: C00757<br/> LS HATCHING PATTERN<br/> LV: 23<br/> CO: 23<br/> WT: 0<br/> STG. MGR. GROUP - Landscaping</p>  | <p>Name: C00758<br/> LS SEEDING CL4 PAT<br/> LV: 23<br/> CO: 23<br/> WT: 1<br/> STG. MGR. GROUP - Landscaping</p>  |
| <p>Name: C00760<br/> LS SOD PATTERN<br/> LV: 23<br/> CO: 23<br/> WT: 0<br/> STG. MGR. GROUP - Landscaping</p>      | <p>Name: C00761<br/> LS EVERGREEN TREE<br/> LV: 23<br/> CO: 23<br/> WT: 2<br/> STG. MGR. GROUP - Landscaping</p>  |

|   |   |
|---|---|
| <p>Name: C00762<br/>LS DECIDUOUS TREE<br/>LV: 23<br/>CO: 23<br/>WT: 0<br/>STG. MGR. GROUP - Landscaping</p>          | <p>Name: C00763<br/>LS MOWLINE PATTERN<br/>LV: 23<br/>CO: 23<br/>WT: 0<br/>STG. MGR. GROUP - Landscaping</p>  |
| <p>Name: C00764<br/>LS PERENNIAL PLANTS PAT<br/>LV: 23<br/>CO: 23<br/>WT: 0<br/>STG. MGR. GROUP - Landscaping</p>  | <p>Name: C00765<br/>LS SEED CL2 PAT<br/>LV: 23<br/>CO: 23<br/>WT: 0<br/>STG. MGR. GROUP - Landscaping</p>  |

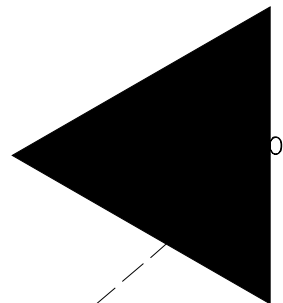
Name: C00766  
 LS SHADE TREE EX  
 LV: 23  
 CO: 23  
 WT: 0  
 STG. MGR. GROUP - Landscaping



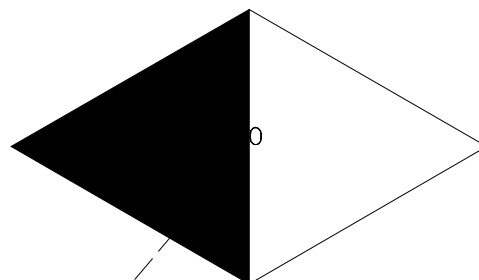
Name: C00767  
 LS INTER TREE EX  
 LV: 23  
 CO: 23  
 WT: 0  
 STG. MGR. GROUP - Landscaping



Name: C00768  
 PM MARKR AMBR 1W PR  
 LV: 9  
 CO: 9  
 WT: 0  
 STG. MGR. GROUP - Pavement Markings PR

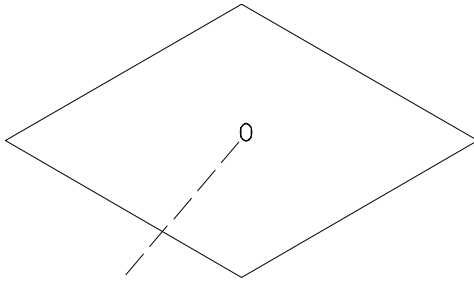


Name: C00769  
 PM RAISED MARKING 3 PR  
 LV: 9  
 CO: 9  
 WT: 0  
 STG. MGR. GROUP - Pavement Markings PR

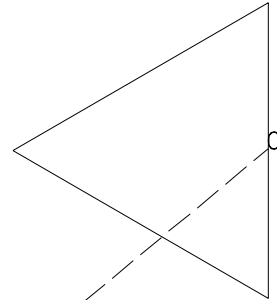




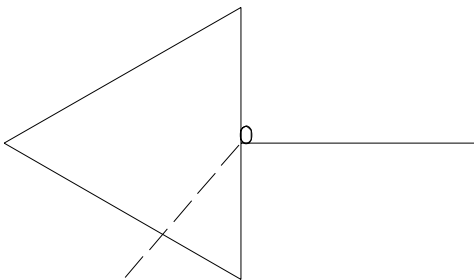
Name: C00770  
 PM RAISED MARKING 4 PR  
 LV: 9  
 CO: 9  
 WT: 1  
 STG. MGR. GROUP - Pavement Markings PR



Name: C00771  
 PM MARKR CRSTL IW PR  
 LV: 9  
 CO: 9  
 WT: 1  
 STG. MGR. GROUP - Pavement Markings PR

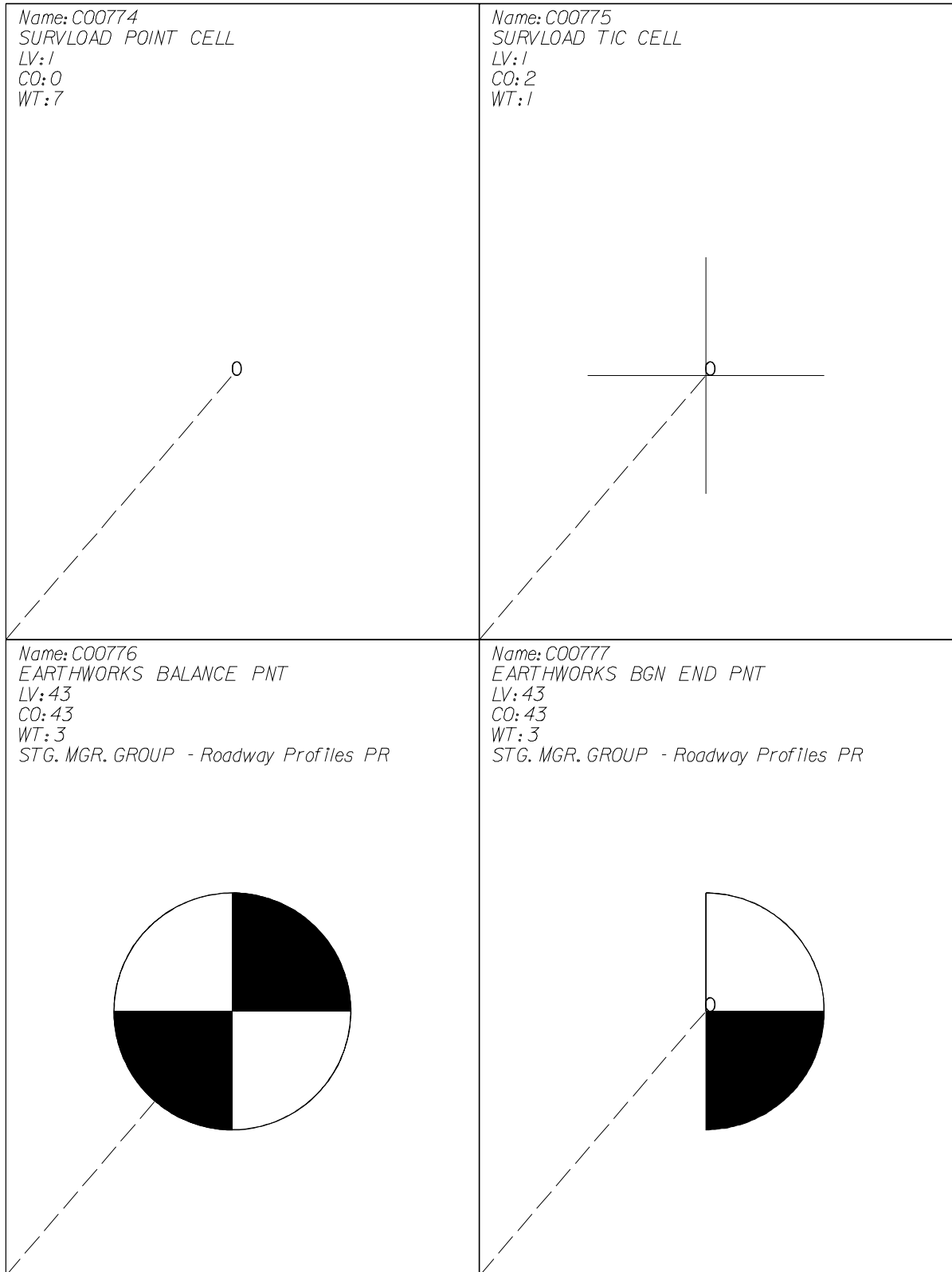


Name: C00772  
 PM RAISED MARKING 6 PR  
 LV: 9  
 CO: 9  
 WT: 1  
 STG. MGR. GROUP - Pavement Markings PR

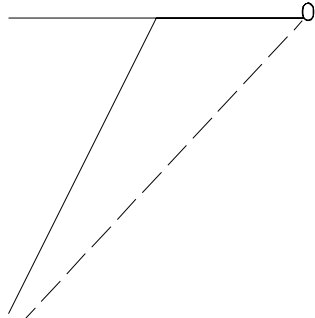


Name: C00773  
 PM SH DIAGONAL PAT EX  
 LV: 7  
 CO: 7  
 WT: 0  
 STG. MGR. GROUP - Pavement Markings EX

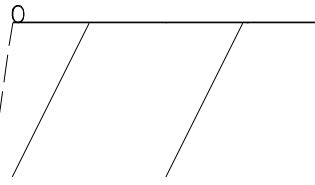




Name: C00778  
EASEMENT EX  
LV: 6  
CO: 6  
WT: 0  
STG. MGR. GROUP - Right of Way EX



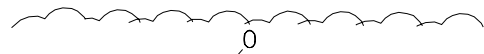
Name: C00779  
TEMP EASEMENT PR  
LV: 59  
CO: 59  
WT: 2  
STG. MGR. GROUP - Right of Way PR

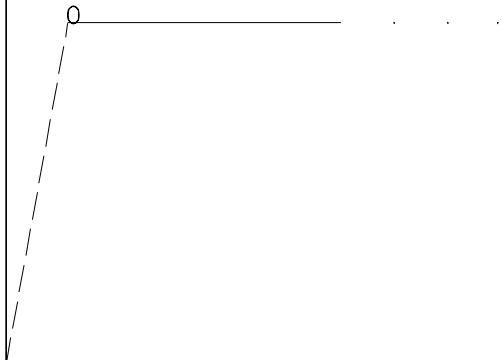
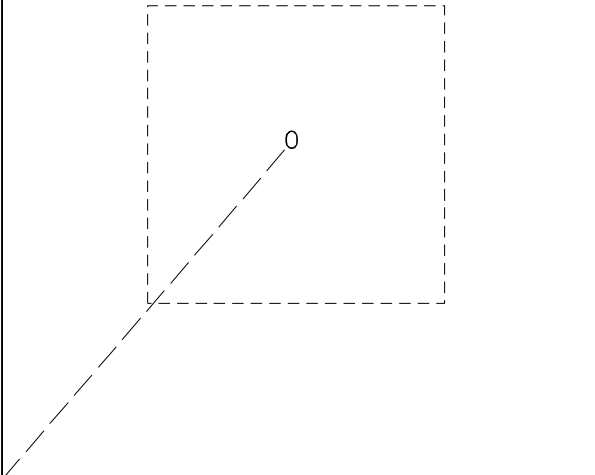
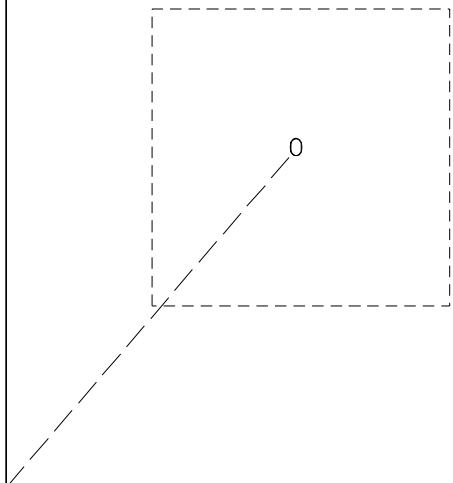
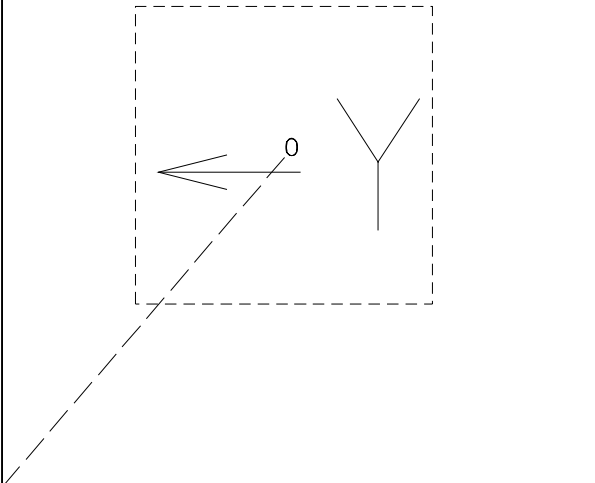


Name: C00780  
BIT REMOVAL AREA  
LV: 54  
CO: 54  
WT: 0  
STG. MGR. GROUP - Removal Items

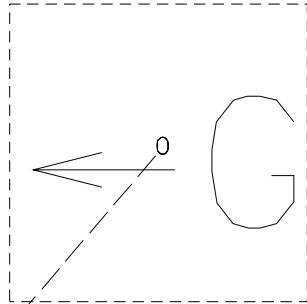


Name: C00781  
VEGETATION LINE  
LV: 4  
CO: 4  
WT: 0  
STG. MGR. GROUP - Vegetation

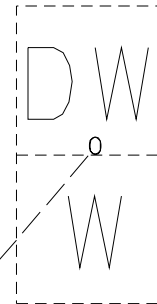


|   |  |
|---|--|
| <p> <i>Name: C00782</i><br/> <i>WATERS EDGE LINE</i><br/> <i>LV: 5</i><br/> <i>CO: 5</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Water Features</i> </p>              | <p> <i>Name: C00783</i><br/> <i>TS SIG SECT SMALL EX</i><br/> <i>LV: 11</i><br/> <i>CO: 11</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Traf. Sheet Det. EX</i> </p>   |
| <p> <i>Name: C00784</i><br/> <i>TS SIG SECT LARGE EX</i><br/> <i>LV: 11</i><br/> <i>CO: 11</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Traf. Sheet Det. EX</i> </p>  | <p> <i>Name: C00785</i><br/> <i>TS LT TURN YELLOW EX</i><br/> <i>LV: 11</i><br/> <i>CO: 11</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Traf. Sheet Det. EX</i> </p>  |

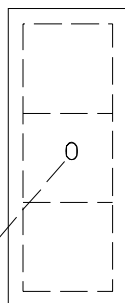
Name: C00786  
 TS LT TURN GREEN EX  
 LV: II  
 CO: II  
 WT: 0  
 STG. MGR. GROUP - Traf. Sheet Det. EX



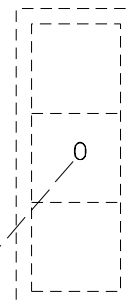
Name: C00787  
 TS WALK DONT WALK EX  
 LV: II  
 CO: II  
 WT: 0  
 STG. MGR. GROUP - Traf. Sheet Det. EX


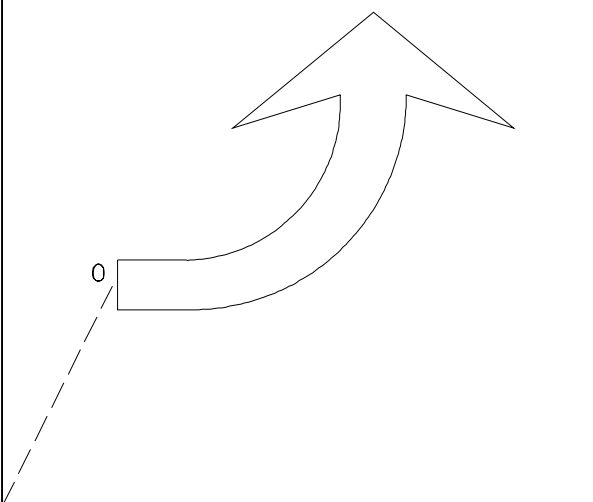





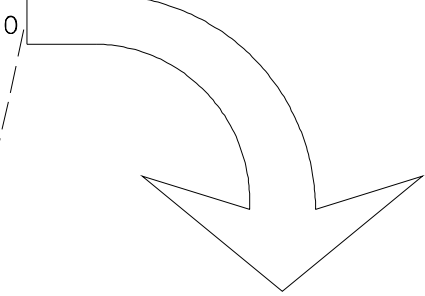


Name: C00788  
 TS BACKPLATE PR  
 LV: I3  
 CO: I3  
 WT: I  
 STG. MGR. GROUP - Traf. Sheet Det. PR



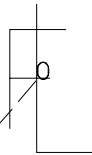
Name: C00789  
 TS BACKPLATE EX  
 LV: II  
 CO: II  
 WT: 0  
 STG. MGR. GROUP - Traf. Sheet Det. EX



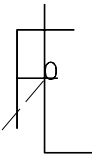
|   |   |
|---|---|
| <p>Name: C00790<br/> PM RUR LT TRN ONLY EX<br/> LV: 7<br/> CO: 7<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings EX</p>   | <p>Name: C00791<br/> PM URB LT TRN ARROW EX<br/> LV: 7<br/> CO: 7<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings EX</p>   |
| <p>Name: C00792<br/> PM RUR LT TRN ONLY PR<br/> LV: 9<br/> CO: 9<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings PR</p>  | <p>Name: C00793<br/> PM URB LT TRN ARROW PR<br/> LV: 9<br/> CO: 9<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings PR</p>  |

|   |  |
|---|--|
| <p>Name: C00794<br/> PM RUR RT TRN ONLY EX<br/> LV: 7<br/> CO: 7<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings EX</p>   | <p>Name: C00795<br/> PM URB RT TRN ARROW EX<br/> LV: 7<br/> CO: 7<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings EX</p>   |
| <p>Name: C00796<br/> PM RUR RT TRN ONLY PR<br/> LV: 9<br/> CO: 9<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings PR</p>  | <p>Name: C00797<br/> PM URB RT TRN ARROW PR<br/> LV: 9<br/> CO: 9<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings PR</p>  |

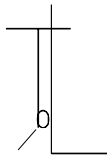
Name: C00798  
DRAINAGE FLOW LINE EX  
LV: 37  
CO: 37  
WT: 0  
STG. MGR. GROUP - Drainage EX



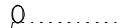
Name: C00799  
DRAINAGE FLOW LINE PR  
LV: 52  
CO: 52  
WT: 2  
STG. MGR. GROUP - Drainage PR



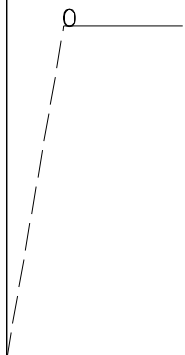
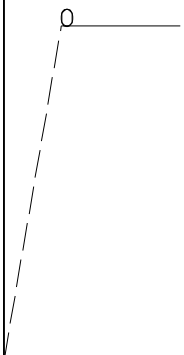
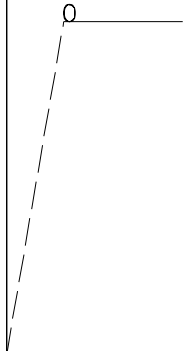
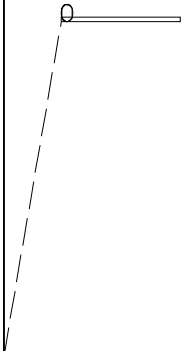
Name: C00800  
TRANSIT LINE  
LV: 42  
CO: 42  
WT: 2  
STG. MGR. GROUP - Alignments PR




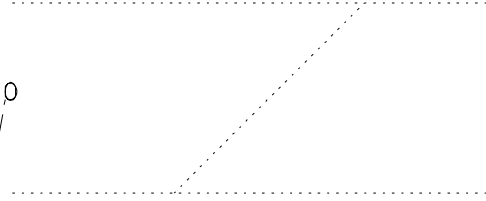


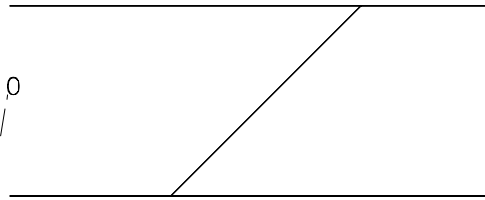

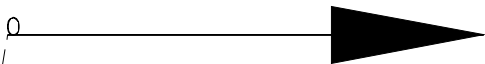

Name: C00904  
PM SKIP DASH LN PAT EX  
LV: 7  
CO: 7  
WT: 1  
STG. MGR. GROUP - Pavement Markings EX



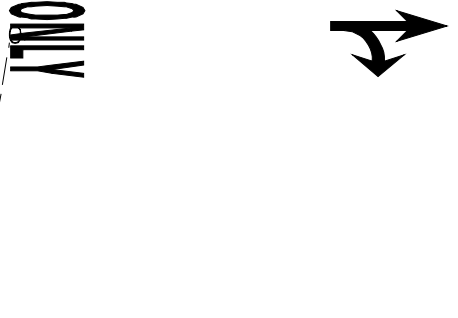
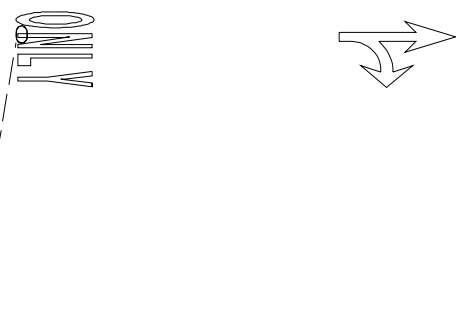


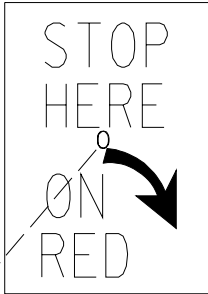


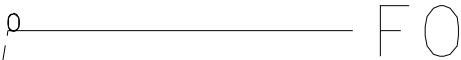


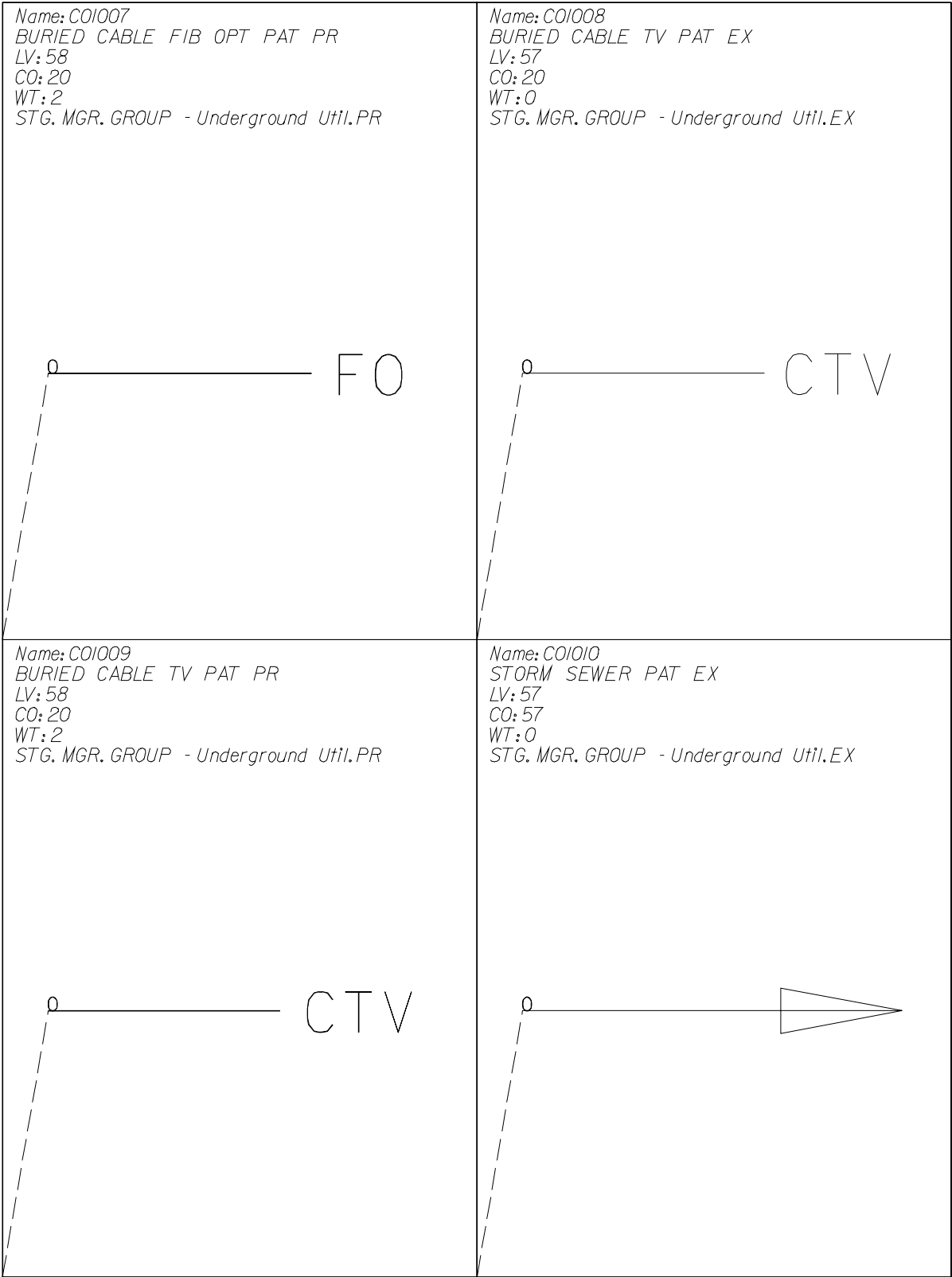
|  |  |
|--|--|
| <p> <i>Name: C00905</i><br/> <i>PM SKIP DASH LN PAT PR</i><br/> <i>LV: 9</i><br/> <i>CO: 9</i><br/> <i>WT: /</i><br/> <i>STG. MGR. GROUP - Pavement Markings PR</i> </p>   | <p> <i>Name: C00906</i><br/> <i>PM DOTTED LINES PAT EX</i><br/> <i>LV: 7</i><br/> <i>CO: 7</i><br/> <i>WT: /</i><br/> <i>STG. MGR. GROUP - Pavement Markings EX</i> </p>  |
| <p> <i>Name: C00907</i><br/> <i>PM DOTTED LINES PAT PR</i><br/> <i>LV: 9</i><br/> <i>CO: 9</i><br/> <i>WT: /</i><br/> <i>STG. MGR. GROUP - Pavement Markings PR</i> </p>  | <p> <i>Name: C00908</i><br/> <i>PM SKIP DASH WHITE PR</i><br/> <i>LV: 9</i><br/> <i>CO: 0</i><br/> <i>WT: /</i><br/> <i>STG. MGR. GROUP - Pavement Markings PR</i> </p>  |

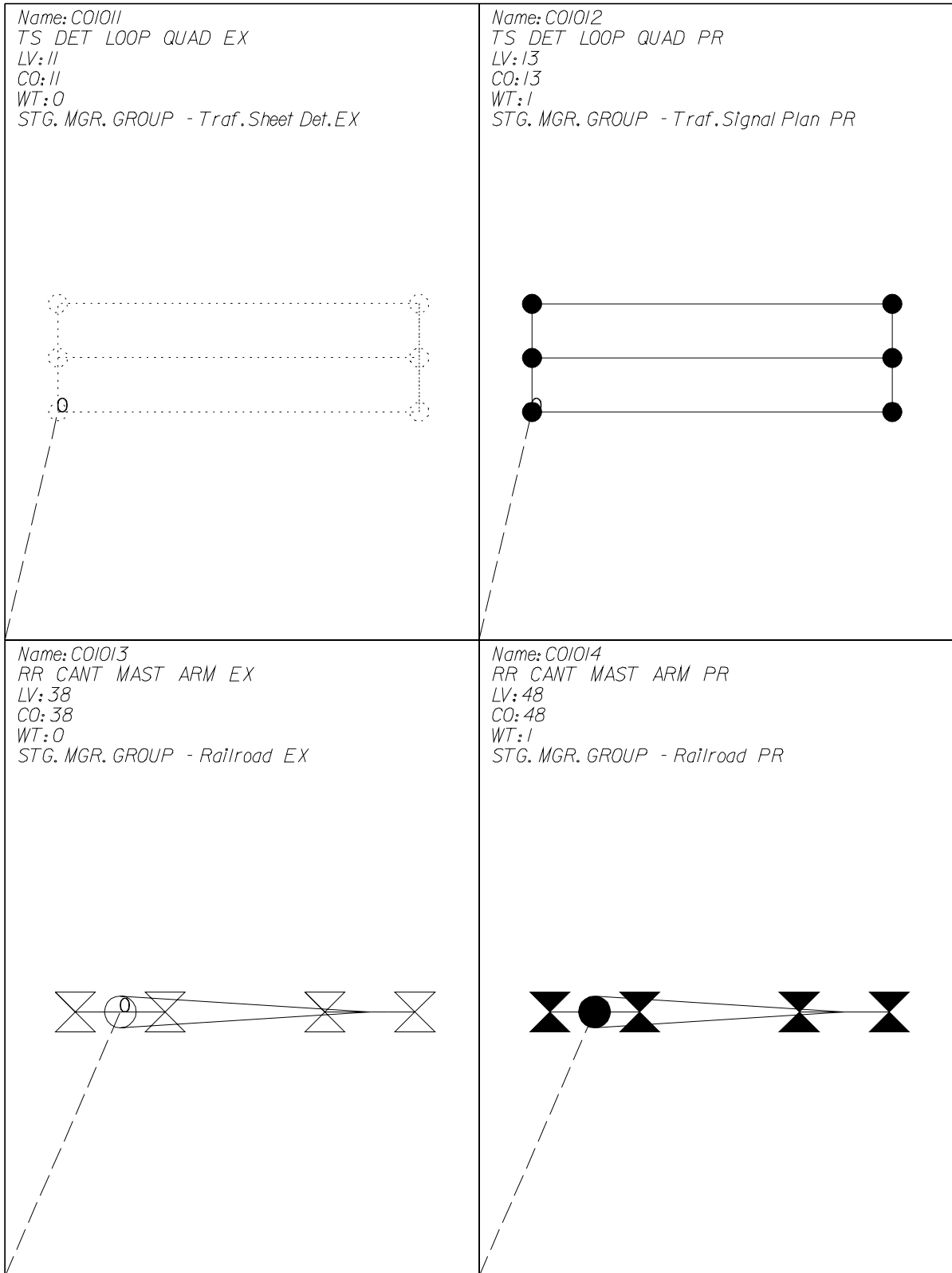
|  |   |
|--|---|
| <p>Name: C00909<br/> PM SKIP DASH YELLOW PR<br/> LV: 9<br/> CO: 3<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings PR</p>      | <p>Name: C00910<br/> PM DBL CENTERLINE PAT EX<br/> LV: 7<br/> CO: 7<br/> WT: 1<br/> STG. MGR. GROUP - Pavement Markings EX</p>  |
| <p>Name: C00911<br/> PM DBL CENTERLINE PAT PR<br/> LV: 9<br/> CO: 9<br/> WT: 1<br/> STG. MGR. GROUP - Pavement Markings PR</p>  | <p>Name: C00912<br/> PM STOP LINE PAT EX<br/> LV: 7<br/> CO: 7<br/> WT: 1<br/> STG. MGR. GROUP - Pavement Markings EX</p>     |

|  |  |
|--|--|
| <p>Name: C00913<br/> PM STOP LINE PAT PR<br/> LV: 9<br/> CO: 9<br/> WT: 2<br/> STG. MGR. GROUP - Pavement Markings PR</p>     | <p>Name: C00932<br/> SANITARY SEWER PR<br/> LV: 57<br/> CO: 58<br/> WT: 2<br/> STG. MGR. GROUP - Underground Util. EX</p>  |
| <p>Name: C00933<br/> STORM SEWER PAT PR<br/> LV: 58<br/> CO: 58<br/> WT: 2<br/> STG. MGR. GROUP - Underground Util. PR</p>  | <p>Name: C00934<br/> CONDUIT EX<br/> LV: 15<br/> CO: 15<br/> WT: 0<br/> STG. MGR. GROUP - Lighting EX</p>                |

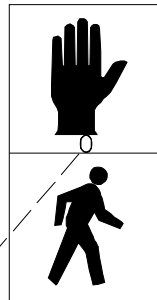
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|--|---|
| <p>Name: C00935<br/> SECT GRANT LN PAT<br/> LV: 10<br/> CO: 12<br/> WT: 0<br/> STG. MGR. GROUP - Boundaries</p>                    | <p>Name: C00936<br/> TS UNDGND CABLE EX<br/> LV: 11<br/> CO: 11<br/> WT: 0<br/> STG. MGR. GROUP - Traf. Sheet Det. EX</p>      |
| <p>Name: C01001<br/> PM URB COMB RT TRN ONLY PR<br/> LV: 9<br/> CO: 9<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings PR</p>  | <p>Name: C01002<br/> PM URB COMB RT ONLY EX<br/> LV: 7<br/> CO: 7<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings EX</p>  |

|  |   |
|--|---|
| <p> <i>Name: CO1003</i><br/> <i>STOP HERE ON RED R10 6AR</i><br/> <i>LV: 49</i><br/> <i>CO: 49</i><br/> <i>WT: 1</i><br/> <i>STG. MGR. GROUP - Construction Signing</i> </p>  | <p> <i>Name: CO1004</i><br/> <i>DETOUR M4 10L 0</i><br/> <i>LV: 49</i><br/> <i>CO: 49</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Construction Signing</i> </p>               |
| <p> <i>Name: CO1005</i><br/> <i>ONE WAY R6 1L</i><br/> <i>LV: 49</i><br/> <i>CO: 49</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Construction Signing</i> </p>           | <p> <i>Name: CO1006</i><br/> <i>BURIED CABLE FIB OPT PAT EX</i><br/> <i>LV: 57</i><br/> <i>CO: 20</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Underground Util.EX</i> </p>  |

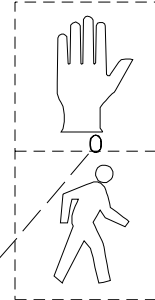




Name: CO1015  
 TS WALK DW SYMBOL PR  
 LV: 13  
 CO: 13  
 WT: 1  
 STG. MGR. GROUP - Traf. Sheet Det. PR



Name: CO1016  
 TS WALK DW SYMBOL EX  
 LV: 11  
 CO: 11  
 WT: 0  
 STG. MGR. GROUP - Traf. Sheet Det. EX

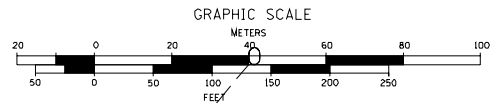


Name: CO1101  
 ROW SURV CERT  
 LV: 35  
 CO: 35  
 WT: 0  
 STG. MGR. GROUP - Gen Details & Plan Sheets

THIS IS TO CERTIFY THAT THIS IS A TRUE  
 AND CORRECT PLAT OF A SURVEY MADE  
 UNDER MY DIRECTION FOR THE ILLINOIS  
 DEPARTMENT OF TRANSPORTATION.

ILLINOIS PROFESSIONAL LAND SURVEYOR  
 NO.

Name: CO1102  
 GRAPHIC SCALE DUAL  
 LV: 16  
 CO: 31  
 WT: 0  
 STG. MGR. GROUP - Roadway Notes



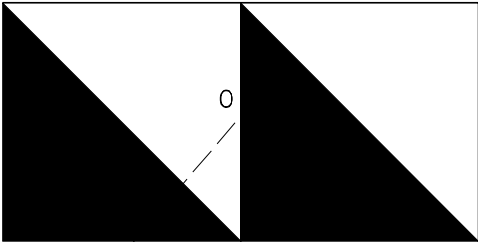






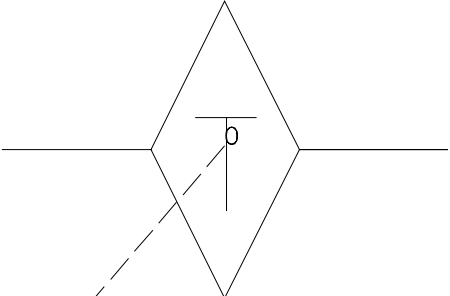
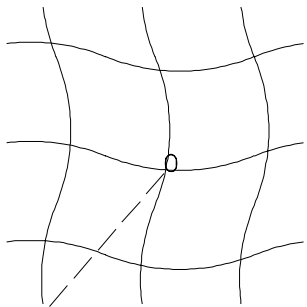
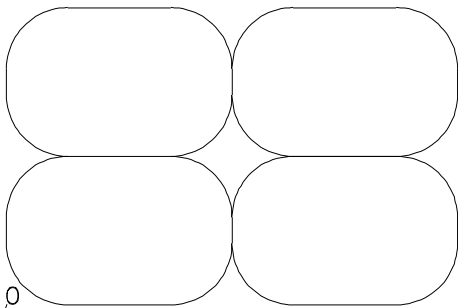
Name: C01106  
UTIL DBLE HANDHOLE EX  
LV: 14  
CO: 14  
WT: 0  
STG. MGR. GROUP - Utilities EX


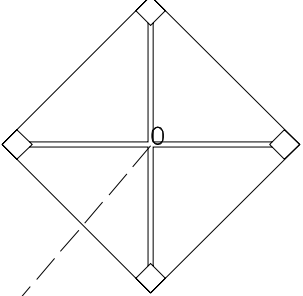




| PARCEL | OWNER | METRIC     |           |              |           |          | EASEMENT PURPOSE | ENGLISH    |           |              |           |          |
|--------|-------|------------|-----------|--------------|-----------|----------|------------------|------------|-----------|--------------|-----------|----------|
|        |       | TOTAL AREA | AREA ADJ. | TAXES EXIST. | REM. AREA | EASEMENT |                  | TOTAL AREA | AREA ADJ. | TAXES EXIST. | REM. AREA | EASEMENT |
|        |       |            |           |              |           |          |                  |            |           |              |           |          |
|        |       |            |           |              |           |          |                  |            |           |              |           |          |
|        |       |            |           |              |           |          |                  |            |           |              |           |          |
|        |       |            |           |              |           |          |                  |            |           |              |           |          |

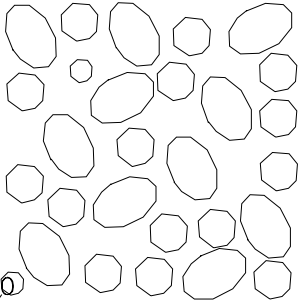
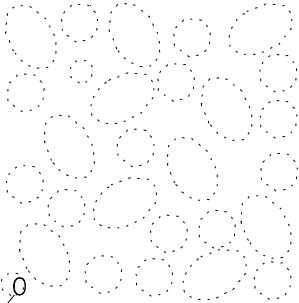
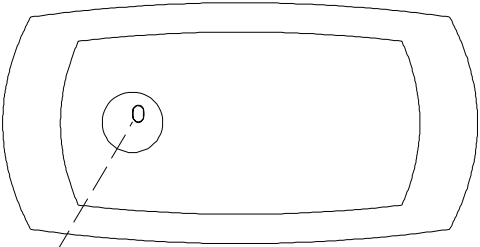
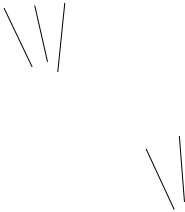
AREAS ARE IN SQUARE METERS UNLESS NOTED.

AREAS ARE IN SQUARE FEET UNLESS NOTED.

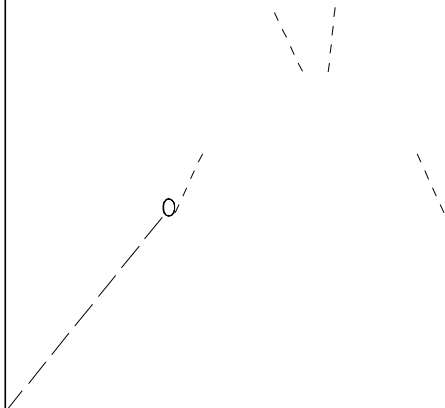
|  |   |
|--|---|
| <p>Name: CO1107<br/> UTIL DBLE HANDHOLE PR<br/> LV: 44<br/> CO: 44<br/> WT: 2<br/> STG. MGR. GROUP - Utilities PR</p>               | <p>Name: CO1201<br/> PM URB COMB LT ONLY EX<br/> LV: 7<br/> CO: 7<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings EX</p>    |
| <p>Name: CO1202<br/> PM RUR COMB LT TRN ONLY PR<br/> LV: 9<br/> CO: 9<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings PR</p>  | <p>Name: CO1211<br/> PM RUR COMB RT ONLY EX<br/> LV: 7<br/> CO: 7<br/> WT: 0<br/> STG. MGR. GROUP - Pavement Markings EX</p>  |

|   |  |
|---|--|
| <p>Name: COI212<br/>PM RUR COMB RT TRN ONLY PR<br/>LV: 9<br/>CO: 9<br/>WT: 0<br/>STG. MGR. GROUP - Pavement Markings PR</p>  | <p>Name: COI215<br/>DITCH CHECK TEMPORARY<br/>LV: 21<br/>CO: 21<br/>WT: 1<br/>STG. MGR. GROUP - Erosion &amp; Sediment Control</p>   |
| <p>Name: COI220<br/>EROSION CONTROL BLANKET<br/>LV: 23<br/>CO: 23<br/>WT: 0<br/>STG. MGR. GROUP - Landscaping</p>          | <p>Name: COI225<br/>FAB. FRMD. CONC. MAT<br/>LV: 52<br/>CO: 52<br/>WT: 1<br/>STG. MGR. GROUP - Erosion &amp; Sediment Control</p>  |

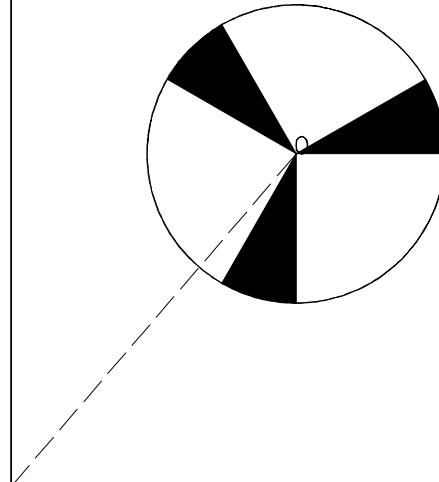
|   |   |
|---|---|
| <p> <i>Name: COI235</i><br/> <i>FIBER MAT</i><br/> <i>LV: 23</i><br/> <i>CO: 52</i><br/> <i>WT: 1</i><br/> <i>STG. MGR. GROUP - Erosion &amp; Sediment Control</i> </p>    | <p> <i>Name: COI240</i><br/> <i>INLET AND PIPE PROTECTION</i><br/> <i>LV: 21</i><br/> <i>CO: 21</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Erosion &amp; Sediment Control</i> </p>   |
| <p> <i>Name: COI241</i><br/> <i>PM RUR THRU ONLY EX</i><br/> <i>LV: 7</i><br/> <i>CO: 7</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Pavement Markings EX</i> </p>   | <p> <i>Name: COI242</i><br/> <i>PM RUR THRU ONLY PR</i><br/> <i>LV: 9</i><br/> <i>CO: 9</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Pavement Markings PR</i> </p>   |

|  |  |
|--|--|
| <p> <i>Name: COI260</i><br/> <i>RIPRAP</i><br/> <i>LV: 52</i><br/> <i>CO: 52</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Drainage PR</i> </p>                               | <p> <i>Name: COI262</i><br/> <i>RIPRAP EX</i><br/> <i>LV: 37</i><br/> <i>CO: 37</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Drainage EX</i> </p>            |
| <p> <i>Name: COI265</i><br/> <i>SEDIMENT BASIN</i><br/> <i>LV: 21</i><br/> <i>CO: 21</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Erosion &amp; Sediment Control</i> </p>  | <p> <i>Name: COI270</i><br/> <i>SEEDING PERMANENT</i><br/> <i>LV: 23</i><br/> <i>CO: 23</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Landscaping</i> </p>  |

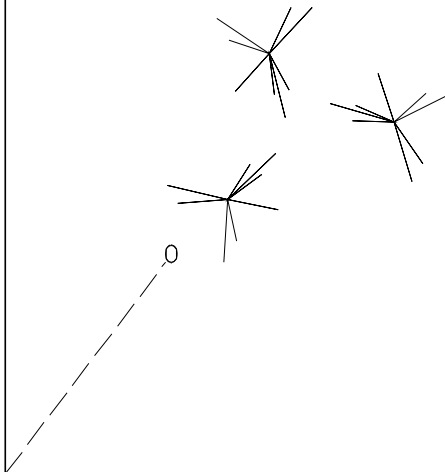
Name: COI275  
SEEDING CL7  
LV: 23  
CO: 23  
WT: 0  
STG. MGR. GROUP - Landscaping



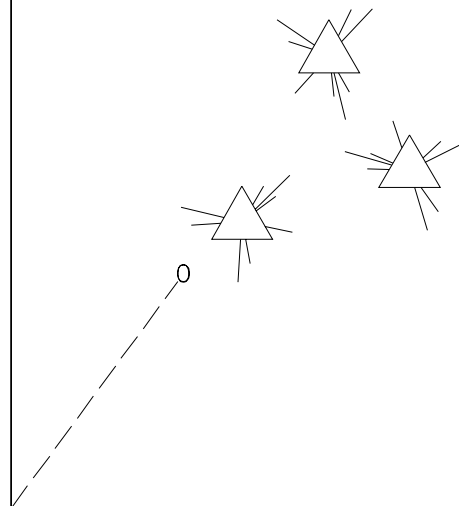
Name: COI285  
TREE TRUNK PROTECTION  
LV: 23  
CO: 23  
WT: 2  
STG. MGR. GROUP - Landscaping



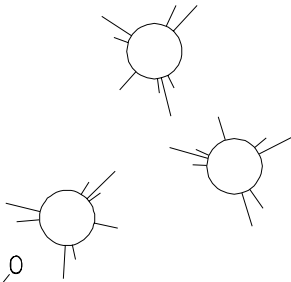
Name: COI286  
MULCH M1  
LV: 23  
CO: 23  
WT: 0  
STG. MGR. GROUP - Landscaping



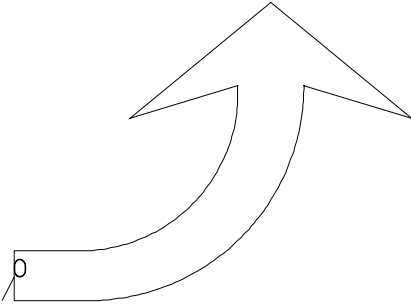
Name: COI287  
MULCH M2 STAB  
LV: 23  
CO: 23  
WT: 0  
STG. MGR. GROUP - Landscaping



Name: COI288  
 MULCH M3 HYDRO  
 LV: 23  
 CO: 23  
 WT: 0  
 STG. MGR. GROUP - Landscaping



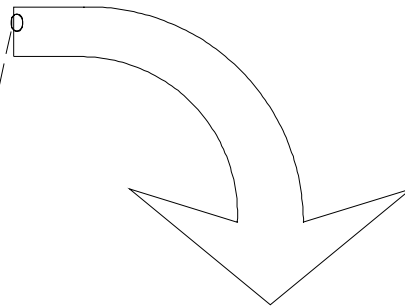
Name: COI291  
 PM RUR LT TRN ARROW EX  
 LV: 7  
 CO: 7  
 WT: 0  
 STG. MGR. GROUP - Pavement Markings EX

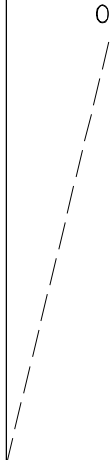
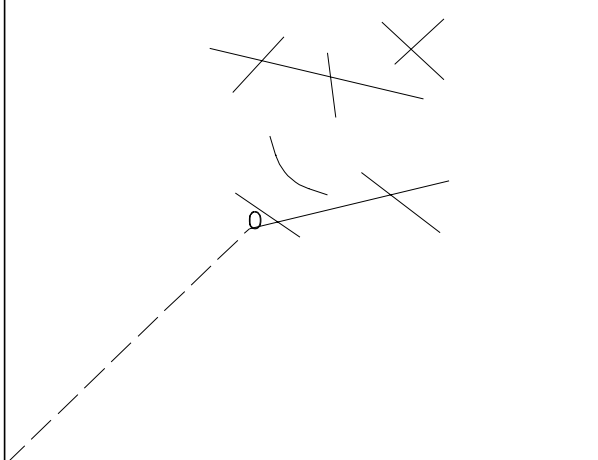
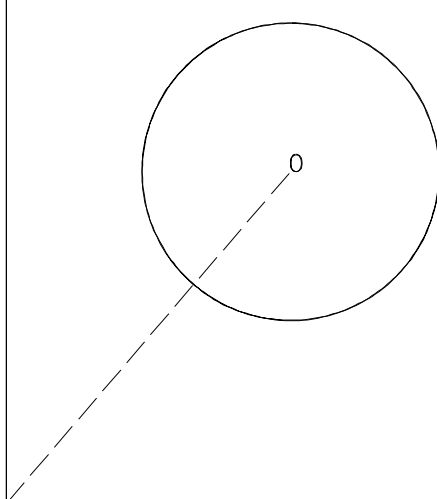
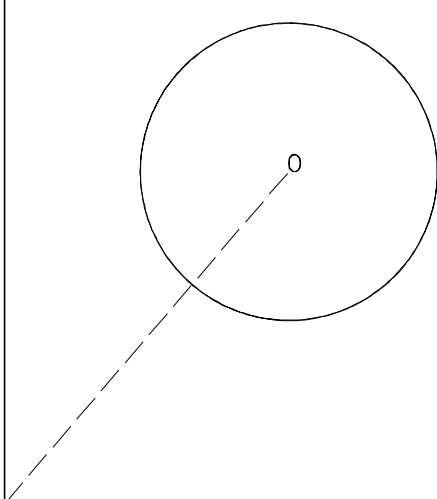


Name: COI292  
 PM RUR LT TRN ARROW PR  
 LV: 9  
 CO: 9  
 WT: 0  
 STG. MGR. GROUP - Pavement Markings PR

0,

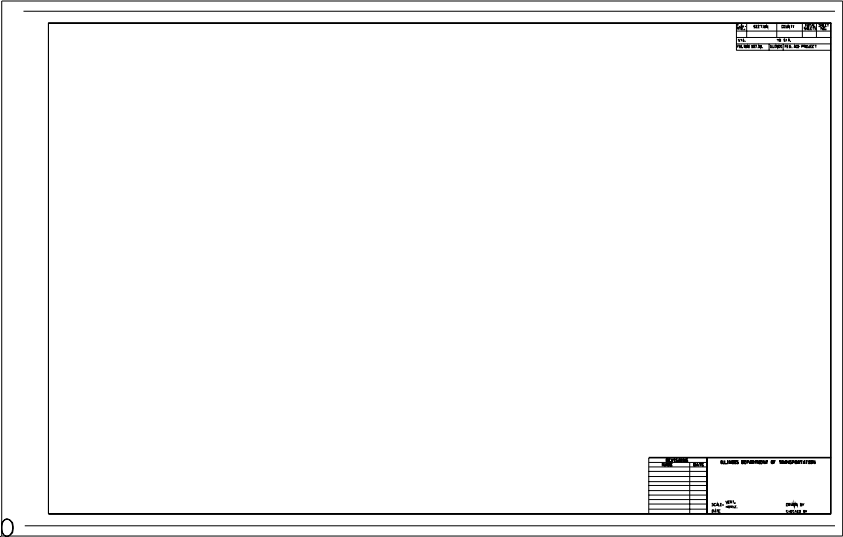
Name: COI295  
 PM RUR RT TRN ARROW EX  
 LV: 7  
 CO: 7  
 WT: 0  
 STG. MGR. GROUP - Pavement Markings EX



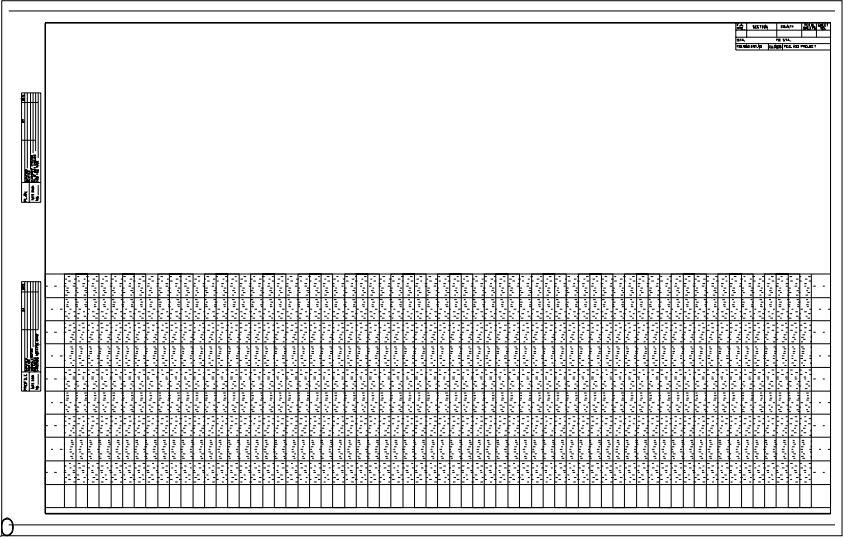
|   |  |
|---|--|
| <p> <i>Name: COI296</i><br/> <i>PM RUR RT TRN ARROW PR</i><br/> <i>LV: 9</i><br/> <i>CO: 9</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Pavement Markings PR</i> </p>  | <p> <i>Name: COI299</i><br/> <i>MULCH TEMPORARY</i><br/> <i>LV: 23</i><br/> <i>CO: 23</i><br/> <i>WT: 0</i><br/> <i>STG. MGR. GROUP - Landscaping</i> </p>  |
| <p> <i>Name: EXUTIL</i><br/> <i>UTIL SYMBOL EX</i><br/> <i>LV: 57</i><br/> <i>CO: 57</i><br/> <i>WT: 2</i><br/> <i>STG. MGR. GROUP - GEOPAK</i> </p>                     | <p> <i>Name: PRUTIL</i><br/> <i>UTIL SYMBOL PR</i><br/> <i>LV: 58</i><br/> <i>CO: 58</i><br/> <i>WT: 3</i><br/> <i>STG. MGR. GROUP - GEOPAK</i> </p>       |



Name: C00116  
SHEET PLAN 09 15 99  
LV: 35  
CO: 35  
WT: 2  
STG. MGR. GROUP - Gen Details & Plan Sheets



Name: C00117  
SHEET PLNPROF 09 15 99  
LV: 35  
CO: 35  
WT: 2  
STG. MGR. GROUP - Gen Details & Plan Sheets



Name: C00123  
 SHEET IDS A 20  
 LV: 35  
 CO: 35  
 WT: .  
 STG. MGR. GROUP - Gen Details & Plan Sheets

| CONCRETE DESIGN STUDY   |                  |     |      |       |       |         |  |  |  | SHEET NUMBER |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|---|------------------|-----|------|-------|-------|---------|--|--|--|--------------|-------------|-----|------|-------|-------|---------|---|----------|--|--|--|--|--|---|---------------|--|--|--|--|--|---|----------|--|--|--|--|--|---|-------|--|--|--|--|--|---|---------|--|--|--|--|--|---|----------|--|--|--|--|--|---|-------|--|--|--|--|--|---|---------------|--|--|--|--|--|---|------------|--|--|--|--|--|----|----------|--|--|--|--|--|----|------|--|--|--|--|--|----|---------|--|--|--|--|--|----|-------------|--|--|--|--|--|----|-----------|--|--|--|--|--|----|-----------|--|--|--|--|--|----|------------|--|--|--|--|--|----|---------|--|--|--|--|--|----|----------|--|--|--|--|--|----|------------|--|--|--|--|--|----|------------|--|--|--|--|--|----|----------|--|--|--|--|--|----|---------|--|--|--|--|--|----|---------|--|--|--|--|--|----|----------|--|--|--|--|--|----|----------|--|--|--|--|--|----|---------------|--|--|--|--|--|----|---------|--|--|--|--|--|----|-----------|--|--|--|--|--|----|---------|--|--|--|--|--|----|-------|--|--|--|--|--|---|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <table border="1"> <tr> <th>ITEM</th> <th>DESCRIPTION</th> <th>QTY</th> <th>UNIT</th> <th>PRICE</th> <th>TOTAL</th> <th>REMARKS</th> </tr> <tr><td>1</td><td>CONCRETE</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>REINFORCEMENT</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td>FORMWORK</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td>PAINT</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td>SEALANT</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td>ADHESIVE</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td>GROUT</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td>WATERPROOFING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td>INSULATION</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td>DRAINAGE</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td>CURB</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>12</td><td>WALKWAY</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>13</td><td>LANDSCAPING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>UTILITIES</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>15</td><td>STRUCTURE</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>16</td><td>FOUNDATION</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>17</td><td>ROOFING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>18</td><td>CLADDING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>19</td><td>MECHANICAL</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>20</td><td>ELECTRICAL</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>21</td><td>PLUMBING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>22</td><td>HEATING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>23</td><td>Cooling</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>24</td><td>Lighting</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>25</td><td>Security</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>26</td><td>Accessibility</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>27</td><td>Signage</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>28</td><td>Furniture</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>29</td><td>Artwork</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>30</td><td>Other</td><td></td><td></td><td></td><td></td><td></td></tr> </table> |                  |     |      |       |       |         |  |  |  | ITEM         | DESCRIPTION | QTY | UNIT | PRICE | TOTAL | REMARKS | 1 | CONCRETE |  |  |  |  |  | 2 | REINFORCEMENT |  |  |  |  |  | 3 | FORMWORK |  |  |  |  |  | 4 | PAINT |  |  |  |  |  | 5 | SEALANT |  |  |  |  |  | 6 | ADHESIVE |  |  |  |  |  | 7 | GROUT |  |  |  |  |  | 8 | WATERPROOFING |  |  |  |  |  | 9 | INSULATION |  |  |  |  |  | 10 | DRAINAGE |  |  |  |  |  | 11 | CURB |  |  |  |  |  | 12 | WALKWAY |  |  |  |  |  | 13 | LANDSCAPING |  |  |  |  |  | 14 | UTILITIES |  |  |  |  |  | 15 | STRUCTURE |  |  |  |  |  | 16 | FOUNDATION |  |  |  |  |  | 17 | ROOFING |  |  |  |  |  | 18 | CLADDING |  |  |  |  |  | 19 | MECHANICAL |  |  |  |  |  | 20 | ELECTRICAL |  |  |  |  |  | 21 | PLUMBING |  |  |  |  |  | 22 | HEATING |  |  |  |  |  | 23 | Cooling |  |  |  |  |  | 24 | Lighting |  |  |  |  |  | 25 | Security |  |  |  |  |  | 26 | Accessibility |  |  |  |  |  | 27 | Signage |  |  |  |  |  | 28 | Furniture |  |  |  |  |  | 29 | Artwork |  |  |  |  |  | 30 | Other |  |  |  |  |  | <table border="1"> <tr> <td>1. SHEET NUMBER</td> <td>2. SHEET NUMBER</td> </tr> <tr> <td>3. SHEET NUMBER</td> <td>4. SHEET NUMBER</td> </tr> <tr> <td>5. SHEET NUMBER</td> <td>6. SHEET NUMBER</td> </tr> <tr> <td>7. SHEET NUMBER</td> <td>8. SHEET NUMBER</td> </tr> <tr> <td>9. SHEET NUMBER</td> <td>10. SHEET NUMBER</td> </tr> <tr> <td>11. SHEET NUMBER</td> <td>12. SHEET NUMBER</td> </tr> <tr> <td>13. SHEET NUMBER</td> <td>14. SHEET NUMBER</td> </tr> <tr> <td>15. SHEET NUMBER</td> <td>16. SHEET NUMBER</td> </tr> <tr> <td>17. SHEET NUMBER</td> <td>18. SHEET NUMBER</td> </tr> <tr> <td>19. SHEET NUMBER</td> <td>20. SHEET NUMBER</td> </tr> <tr> <td>21. SHEET NUMBER</td> <td>22. SHEET NUMBER</td> </tr> <tr> <td>23. SHEET NUMBER</td> <td>24. SHEET NUMBER</td> </tr> <tr> <td>25. SHEET NUMBER</td> <td>26. SHEET NUMBER</td> </tr> <tr> <td>27. SHEET NUMBER</td> <td>28. SHEET NUMBER</td> </tr> <tr> <td>29. SHEET NUMBER</td> <td>30. SHEET NUMBER</td> </tr> </table> |  | 1. SHEET NUMBER | 2. SHEET NUMBER | 3. SHEET NUMBER | 4. SHEET NUMBER | 5. SHEET NUMBER | 6. SHEET NUMBER | 7. SHEET NUMBER | 8. SHEET NUMBER | 9. SHEET NUMBER | 10. SHEET NUMBER | 11. SHEET NUMBER | 12. SHEET NUMBER | 13. SHEET NUMBER | 14. SHEET NUMBER | 15. SHEET NUMBER | 16. SHEET NUMBER | 17. SHEET NUMBER | 18. SHEET NUMBER | 19. SHEET NUMBER | 20. SHEET NUMBER | 21. SHEET NUMBER | 22. SHEET NUMBER | 23. SHEET NUMBER | 24. SHEET NUMBER | 25. SHEET NUMBER | 26. SHEET NUMBER | 27. SHEET NUMBER | 28. SHEET NUMBER | 29. SHEET NUMBER | 30. SHEET NUMBER |
| ITEM  | DESCRIPTION      | QTY | UNIT | PRICE | TOTAL | REMARKS |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1   | CONCRETE         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 2   | REINFORCEMENT    |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 3   | FORMWORK         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4   | PAINT            |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 5   | SEALANT          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 6   | ADHESIVE         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 7   | GROUT            |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 8   | WATERPROOFING    |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 9   | INSULATION       |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 10  | DRAINAGE         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 11  | CURB             |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 12  | WALKWAY          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 13  | LANDSCAPING      |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 14  | UTILITIES        |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 15  | STRUCTURE        |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 16  | FOUNDATION       |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 17  | ROOFING          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 18  | CLADDING         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 19  | MECHANICAL       |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 20  | ELECTRICAL       |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 21  | PLUMBING         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 22  | HEATING          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 23  | Cooling          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 24  | Lighting         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 25  | Security         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 26  | Accessibility    |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 27  | Signage          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 28  | Furniture        |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 29  | Artwork          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 30  | Other            |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1. SHEET NUMBER   | 2. SHEET NUMBER  |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 3. SHEET NUMBER   | 4. SHEET NUMBER  |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 5. SHEET NUMBER   | 6. SHEET NUMBER  |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 7. SHEET NUMBER   | 8. SHEET NUMBER  |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 9. SHEET NUMBER   | 10. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 11. SHEET NUMBER  | 12. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 13. SHEET NUMBER  | 14. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 15. SHEET NUMBER  | 16. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 17. SHEET NUMBER  | 18. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 19. SHEET NUMBER  | 20. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 21. SHEET NUMBER  | 22. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 23. SHEET NUMBER  | 24. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 25. SHEET NUMBER  | 26. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 27. SHEET NUMBER  | 28. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 29. SHEET NUMBER  | 30. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| <table border="1"> <tr> <th>ITEM</th> <th>DESCRIPTION</th> <th>QTY</th> <th>UNIT</th> <th>PRICE</th> <th>TOTAL</th> <th>REMARKS</th> </tr> <tr><td>1</td><td>CONCRETE</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>REINFORCEMENT</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td>FORMWORK</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td>PAINT</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td>SEALANT</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td>ADHESIVE</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td>GROUT</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td>WATERPROOFING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td>INSULATION</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td>DRAINAGE</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td>CURB</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>12</td><td>WALKWAY</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>13</td><td>LANDSCAPING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>UTILITIES</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>15</td><td>STRUCTURE</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>16</td><td>FOUNDATION</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>17</td><td>ROOFING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>18</td><td>CLADDING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>19</td><td>MECHANICAL</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>20</td><td>ELECTRICAL</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>21</td><td>PLUMBING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>22</td><td>HEATING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>23</td><td>Cooling</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>24</td><td>Lighting</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>25</td><td>Security</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>26</td><td>Accessibility</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>27</td><td>Signage</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>28</td><td>Furniture</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>29</td><td>Artwork</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>30</td><td>Other</td><td></td><td></td><td></td><td></td><td></td></tr> </table> |                  |     |      |       |       |         |  |  |  | ITEM         | DESCRIPTION | QTY | UNIT | PRICE | TOTAL | REMARKS | 1 | CONCRETE |  |  |  |  |  | 2 | REINFORCEMENT |  |  |  |  |  | 3 | FORMWORK |  |  |  |  |  | 4 | PAINT |  |  |  |  |  | 5 | SEALANT |  |  |  |  |  | 6 | ADHESIVE |  |  |  |  |  | 7 | GROUT |  |  |  |  |  | 8 | WATERPROOFING |  |  |  |  |  | 9 | INSULATION |  |  |  |  |  | 10 | DRAINAGE |  |  |  |  |  | 11 | CURB |  |  |  |  |  | 12 | WALKWAY |  |  |  |  |  | 13 | LANDSCAPING |  |  |  |  |  | 14 | UTILITIES |  |  |  |  |  | 15 | STRUCTURE |  |  |  |  |  | 16 | FOUNDATION |  |  |  |  |  | 17 | ROOFING |  |  |  |  |  | 18 | CLADDING |  |  |  |  |  | 19 | MECHANICAL |  |  |  |  |  | 20 | ELECTRICAL |  |  |  |  |  | 21 | PLUMBING |  |  |  |  |  | 22 | HEATING |  |  |  |  |  | 23 | Cooling |  |  |  |  |  | 24 | Lighting |  |  |  |  |  | 25 | Security |  |  |  |  |  | 26 | Accessibility |  |  |  |  |  | 27 | Signage |  |  |  |  |  | 28 | Furniture |  |  |  |  |  | 29 | Artwork |  |  |  |  |  | 30 | Other |  |  |  |  |  | <table border="1"> <tr> <td>1. SHEET NUMBER</td> <td>2. SHEET NUMBER</td> </tr> <tr> <td>3. SHEET NUMBER</td> <td>4. SHEET NUMBER</td> </tr> <tr> <td>5. SHEET NUMBER</td> <td>6. SHEET NUMBER</td> </tr> <tr> <td>7. SHEET NUMBER</td> <td>8. SHEET NUMBER</td> </tr> <tr> <td>9. SHEET NUMBER</td> <td>10. SHEET NUMBER</td> </tr> <tr> <td>11. SHEET NUMBER</td> <td>12. SHEET NUMBER</td> </tr> <tr> <td>13. SHEET NUMBER</td> <td>14. SHEET NUMBER</td> </tr> <tr> <td>15. SHEET NUMBER</td> <td>16. SHEET NUMBER</td> </tr> <tr> <td>17. SHEET NUMBER</td> <td>18. SHEET NUMBER</td> </tr> <tr> <td>19. SHEET NUMBER</td> <td>20. SHEET NUMBER</td> </tr> <tr> <td>21. SHEET NUMBER</td> <td>22. SHEET NUMBER</td> </tr> <tr> <td>23. SHEET NUMBER</td> <td>24. SHEET NUMBER</td> </tr> <tr> <td>25. SHEET NUMBER</td> <td>26. SHEET NUMBER</td> </tr> <tr> <td>27. SHEET NUMBER</td> <td>28. SHEET NUMBER</td> </tr> <tr> <td>29. SHEET NUMBER</td> <td>30. SHEET NUMBER</td> </tr> </table> |  | 1. SHEET NUMBER | 2. SHEET NUMBER | 3. SHEET NUMBER | 4. SHEET NUMBER | 5. SHEET NUMBER | 6. SHEET NUMBER | 7. SHEET NUMBER | 8. SHEET NUMBER | 9. SHEET NUMBER | 10. SHEET NUMBER | 11. SHEET NUMBER | 12. SHEET NUMBER | 13. SHEET NUMBER | 14. SHEET NUMBER | 15. SHEET NUMBER | 16. SHEET NUMBER | 17. SHEET NUMBER | 18. SHEET NUMBER | 19. SHEET NUMBER | 20. SHEET NUMBER | 21. SHEET NUMBER | 22. SHEET NUMBER | 23. SHEET NUMBER | 24. SHEET NUMBER | 25. SHEET NUMBER | 26. SHEET NUMBER | 27. SHEET NUMBER | 28. SHEET NUMBER | 29. SHEET NUMBER | 30. SHEET NUMBER |
| ITEM  | DESCRIPTION      | QTY | UNIT | PRICE | TOTAL | REMARKS |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1   | CONCRETE         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 2   | REINFORCEMENT    |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 3   | FORMWORK         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4   | PAINT            |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 5   | SEALANT          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 6   | ADHESIVE         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 7   | GROUT            |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 8   | WATERPROOFING    |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 9   | INSULATION       |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 10  | DRAINAGE         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 11  | CURB             |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 12  | WALKWAY          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 13  | LANDSCAPING      |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 14  | UTILITIES        |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 15  | STRUCTURE        |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 16  | FOUNDATION       |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 17  | ROOFING          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 18  | CLADDING         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 19  | MECHANICAL       |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 20  | ELECTRICAL       |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 21  | PLUMBING         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 22  | HEATING          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 23  | Cooling          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 24  | Lighting         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 25  | Security         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 26  | Accessibility    |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 27  | Signage          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 28  | Furniture        |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 29  | Artwork          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 30  | Other            |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1. SHEET NUMBER   | 2. SHEET NUMBER  |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 3. SHEET NUMBER   | 4. SHEET NUMBER  |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 5. SHEET NUMBER   | 6. SHEET NUMBER  |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 7. SHEET NUMBER   | 8. SHEET NUMBER  |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 9. SHEET NUMBER   | 10. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 11. SHEET NUMBER  | 12. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 13. SHEET NUMBER  | 14. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 15. SHEET NUMBER  | 16. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 17. SHEET NUMBER  | 18. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 19. SHEET NUMBER  | 20. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 21. SHEET NUMBER  | 22. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 23. SHEET NUMBER  | 24. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 25. SHEET NUMBER  | 26. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 27. SHEET NUMBER  | 28. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 29. SHEET NUMBER  | 30. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

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 LV: 35  
 CO: 35  
 WT: 2  
 STG. MGR. GROUP - Gen Details & Plan Sheets

| CONCRETE DESIGN STUDY   |                  |     |      |       |       |         |  |  |  | SHEET NUMBER |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|---|------------------|-----|------|-------|-------|---------|--|--|--|--------------|-------------|-----|------|-------|-------|---------|---|----------|--|--|--|--|--|---|---------------|--|--|--|--|--|---|----------|--|--|--|--|--|---|-------|--|--|--|--|--|---|---------|--|--|--|--|--|---|----------|--|--|--|--|--|---|-------|--|--|--|--|--|---|---------------|--|--|--|--|--|---|------------|--|--|--|--|--|----|----------|--|--|--|--|--|----|------|--|--|--|--|--|----|---------|--|--|--|--|--|----|-------------|--|--|--|--|--|----|-----------|--|--|--|--|--|----|-----------|--|--|--|--|--|----|------------|--|--|--|--|--|----|---------|--|--|--|--|--|----|----------|--|--|--|--|--|----|------------|--|--|--|--|--|----|------------|--|--|--|--|--|----|----------|--|--|--|--|--|----|---------|--|--|--|--|--|----|---------|--|--|--|--|--|----|----------|--|--|--|--|--|----|----------|--|--|--|--|--|----|---------------|--|--|--|--|--|----|---------|--|--|--|--|--|----|-----------|--|--|--|--|--|----|---------|--|--|--|--|--|----|-------|--|--|--|--|--|---|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| <table border="1"> <tr> <th>ITEM</th> <th>DESCRIPTION</th> <th>QTY</th> <th>UNIT</th> <th>PRICE</th> <th>TOTAL</th> <th>REMARKS</th> </tr> <tr><td>1</td><td>CONCRETE</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>REINFORCEMENT</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td>FORMWORK</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td>PAINT</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td>SEALANT</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td>ADHESIVE</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td>GROUT</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td>WATERPROOFING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td>INSULATION</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td>DRAINAGE</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td>CURB</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>12</td><td>WALKWAY</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>13</td><td>LANDSCAPING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>UTILITIES</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>15</td><td>STRUCTURE</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>16</td><td>FOUNDATION</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>17</td><td>ROOFING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>18</td><td>CLADDING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>19</td><td>MECHANICAL</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>20</td><td>ELECTRICAL</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>21</td><td>PLUMBING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>22</td><td>HEATING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>23</td><td>Cooling</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>24</td><td>Lighting</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>25</td><td>Security</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>26</td><td>Accessibility</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>27</td><td>Signage</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>28</td><td>Furniture</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>29</td><td>Artwork</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>30</td><td>Other</td><td></td><td></td><td></td><td></td><td></td></tr> </table> |                  |     |      |       |       |         |  |  |  | ITEM         | DESCRIPTION | QTY | UNIT | PRICE | TOTAL | REMARKS | 1 | CONCRETE |  |  |  |  |  | 2 | REINFORCEMENT |  |  |  |  |  | 3 | FORMWORK |  |  |  |  |  | 4 | PAINT |  |  |  |  |  | 5 | SEALANT |  |  |  |  |  | 6 | ADHESIVE |  |  |  |  |  | 7 | GROUT |  |  |  |  |  | 8 | WATERPROOFING |  |  |  |  |  | 9 | INSULATION |  |  |  |  |  | 10 | DRAINAGE |  |  |  |  |  | 11 | CURB |  |  |  |  |  | 12 | WALKWAY |  |  |  |  |  | 13 | LANDSCAPING |  |  |  |  |  | 14 | UTILITIES |  |  |  |  |  | 15 | STRUCTURE |  |  |  |  |  | 16 | FOUNDATION |  |  |  |  |  | 17 | ROOFING |  |  |  |  |  | 18 | CLADDING |  |  |  |  |  | 19 | MECHANICAL |  |  |  |  |  | 20 | ELECTRICAL |  |  |  |  |  | 21 | PLUMBING |  |  |  |  |  | 22 | HEATING |  |  |  |  |  | 23 | Cooling |  |  |  |  |  | 24 | Lighting |  |  |  |  |  | 25 | Security |  |  |  |  |  | 26 | Accessibility |  |  |  |  |  | 27 | Signage |  |  |  |  |  | 28 | Furniture |  |  |  |  |  | 29 | Artwork |  |  |  |  |  | 30 | Other |  |  |  |  |  | <table border="1"> <tr> <td>1. 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SHEET NUMBER | 5. SHEET NUMBER | 6. SHEET NUMBER | 7. SHEET NUMBER | 8. SHEET NUMBER | 9. SHEET NUMBER | 10. SHEET NUMBER | 11. SHEET NUMBER | 12. SHEET NUMBER | 13. SHEET NUMBER | 14. SHEET NUMBER | 15. SHEET NUMBER | 16. SHEET NUMBER | 17. SHEET NUMBER | 18. SHEET NUMBER | 19. SHEET NUMBER | 20. SHEET NUMBER | 21. SHEET NUMBER | 22. SHEET NUMBER | 23. SHEET NUMBER | 24. SHEET NUMBER | 25. SHEET NUMBER | 26. SHEET NUMBER | 27. SHEET NUMBER | 28. SHEET NUMBER | 29. SHEET NUMBER | 30. SHEET NUMBER |
| ITEM  | DESCRIPTION      | QTY | UNIT | PRICE | TOTAL | REMARKS |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1   | CONCRETE         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 2   | REINFORCEMENT    |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 3   | FORMWORK         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4   | PAINT            |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 5   | SEALANT          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 6   | ADHESIVE         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 7   | GROUT            |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 8   | WATERPROOFING    |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 9   | INSULATION       |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 10  | DRAINAGE         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 11  | CURB             |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 12  | WALKWAY          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 13  | LANDSCAPING      |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 14  | UTILITIES        |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 15  | STRUCTURE        |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 16  | FOUNDATION       |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 17  | ROOFING          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 18  | CLADDING         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 19  | MECHANICAL       |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 20  | ELECTRICAL       |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 21  | PLUMBING         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 22  | HEATING          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 23  | Cooling          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 24  | Lighting         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 25  | Security         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 26  | Accessibility    |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 27  | Signage          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 28  | Furniture        |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 29  | Artwork          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 30  | Other            |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1. SHEET NUMBER   | 2. SHEET NUMBER  |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 3. SHEET NUMBER   | 4. SHEET NUMBER  |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 5. SHEET NUMBER   | 6. SHEET NUMBER  |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 7. SHEET NUMBER   | 8. SHEET NUMBER  |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 9. SHEET NUMBER   | 10. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 11. SHEET NUMBER  | 12. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 13. SHEET NUMBER  | 14. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 15. SHEET NUMBER  | 16. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 17. SHEET NUMBER  | 18. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 19. SHEET NUMBER  | 20. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 21. SHEET NUMBER  | 22. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 23. SHEET NUMBER  | 24. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 25. SHEET NUMBER  | 26. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 27. SHEET NUMBER  | 28. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 29. SHEET NUMBER  | 30. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| <table border="1"> <tr> <th>ITEM</th> <th>DESCRIPTION</th> <th>QTY</th> <th>UNIT</th> <th>PRICE</th> <th>TOTAL</th> <th>REMARKS</th> </tr> <tr><td>1</td><td>CONCRETE</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td>REINFORCEMENT</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td>FORMWORK</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td>PAINT</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td>SEALANT</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td>ADHESIVE</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td>GROUT</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td>WATERPROOFING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td>INSULATION</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td>DRAINAGE</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td>CURB</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>12</td><td>WALKWAY</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>13</td><td>LANDSCAPING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>14</td><td>UTILITIES</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>15</td><td>STRUCTURE</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>16</td><td>FOUNDATION</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>17</td><td>ROOFING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>18</td><td>CLADDING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>19</td><td>MECHANICAL</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>20</td><td>ELECTRICAL</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>21</td><td>PLUMBING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>22</td><td>HEATING</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>23</td><td>Cooling</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>24</td><td>Lighting</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>25</td><td>Security</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>26</td><td>Accessibility</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>27</td><td>Signage</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>28</td><td>Furniture</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>29</td><td>Artwork</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>30</td><td>Other</td><td></td><td></td><td></td><td></td><td></td></tr> </table> |                  |     |      |       |       |         |  |  |  | ITEM         | DESCRIPTION | QTY | UNIT | PRICE | TOTAL | REMARKS | 1 | CONCRETE |  |  |  |  |  | 2 | REINFORCEMENT |  |  |  |  |  | 3 | FORMWORK |  |  |  |  |  | 4 | PAINT |  |  |  |  |  | 5 | SEALANT |  |  |  |  |  | 6 | ADHESIVE |  |  |  |  |  | 7 | GROUT |  |  |  |  |  | 8 | WATERPROOFING |  |  |  |  |  | 9 | INSULATION |  |  |  |  |  | 10 | DRAINAGE |  |  |  |  |  | 11 | CURB |  |  |  |  |  | 12 | WALKWAY |  |  |  |  |  | 13 | LANDSCAPING |  |  |  |  |  | 14 | UTILITIES |  |  |  |  |  | 15 | STRUCTURE |  |  |  |  |  | 16 | FOUNDATION |  |  |  |  |  | 17 | ROOFING |  |  |  |  |  | 18 | CLADDING |  |  |  |  |  | 19 | MECHANICAL |  |  |  |  |  | 20 | ELECTRICAL |  |  |  |  |  | 21 | PLUMBING |  |  |  |  |  | 22 | HEATING |  |  |  |  |  | 23 | Cooling |  |  |  |  |  | 24 | Lighting |  |  |  |  |  | 25 | Security |  |  |  |  |  | 26 | Accessibility |  |  |  |  |  | 27 | Signage |  |  |  |  |  | 28 | Furniture |  |  |  |  |  | 29 | Artwork |  |  |  |  |  | 30 | Other |  |  |  |  |  | <table border="1"> <tr> <td>1. SHEET NUMBER</td> <td>2. SHEET NUMBER</td> </tr> <tr> <td>3. SHEET NUMBER</td> <td>4. SHEET NUMBER</td> </tr> <tr> <td>5. SHEET NUMBER</td> <td>6. SHEET NUMBER</td> </tr> <tr> <td>7. SHEET NUMBER</td> <td>8. SHEET NUMBER</td> </tr> <tr> <td>9. SHEET NUMBER</td> <td>10. SHEET NUMBER</td> </tr> <tr> <td>11. SHEET NUMBER</td> <td>12. SHEET NUMBER</td> </tr> <tr> <td>13. SHEET NUMBER</td> <td>14. SHEET NUMBER</td> </tr> <tr> <td>15. SHEET NUMBER</td> <td>16. SHEET NUMBER</td> </tr> <tr> <td>17. SHEET NUMBER</td> <td>18. SHEET NUMBER</td> </tr> <tr> <td>19. SHEET NUMBER</td> <td>20. SHEET NUMBER</td> </tr> <tr> <td>21. SHEET NUMBER</td> <td>22. SHEET NUMBER</td> </tr> <tr> <td>23. SHEET NUMBER</td> <td>24. SHEET NUMBER</td> </tr> <tr> <td>25. SHEET NUMBER</td> <td>26. SHEET NUMBER</td> </tr> <tr> <td>27. SHEET NUMBER</td> <td>28. SHEET NUMBER</td> </tr> <tr> <td>29. SHEET NUMBER</td> <td>30. SHEET NUMBER</td> </tr> </table> |  | 1. SHEET NUMBER | 2. SHEET NUMBER | 3. SHEET NUMBER | 4. SHEET NUMBER | 5. SHEET NUMBER | 6. SHEET NUMBER | 7. SHEET NUMBER | 8. SHEET NUMBER | 9. SHEET NUMBER | 10. SHEET NUMBER | 11. SHEET NUMBER | 12. SHEET NUMBER | 13. SHEET NUMBER | 14. SHEET NUMBER | 15. SHEET NUMBER | 16. SHEET NUMBER | 17. SHEET NUMBER | 18. SHEET NUMBER | 19. SHEET NUMBER | 20. SHEET NUMBER | 21. SHEET NUMBER | 22. SHEET NUMBER | 23. SHEET NUMBER | 24. SHEET NUMBER | 25. SHEET NUMBER | 26. SHEET NUMBER | 27. SHEET NUMBER | 28. SHEET NUMBER | 29. SHEET NUMBER | 30. SHEET NUMBER |
| ITEM  | DESCRIPTION      | QTY | UNIT | PRICE | TOTAL | REMARKS |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1   | CONCRETE         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 2   | REINFORCEMENT    |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 3   | FORMWORK         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 4   | PAINT            |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 5   | SEALANT          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 6   | ADHESIVE         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 7   | GROUT            |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 8   | WATERPROOFING    |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 9   | INSULATION       |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 10  | DRAINAGE         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 11  | CURB             |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 12  | WALKWAY          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 13  | LANDSCAPING      |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 14  | UTILITIES        |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 15  | STRUCTURE        |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 16  | FOUNDATION       |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 17  | ROOFING          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 18  | CLADDING         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 19  | MECHANICAL       |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 20  | ELECTRICAL       |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 21  | PLUMBING         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 22  | HEATING          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 23  | Cooling          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 24  | Lighting         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 25  | Security         |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 26  | Accessibility    |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 27  | Signage          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 28  | Furniture        |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 29  | Artwork          |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 30  | Other            |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1. SHEET NUMBER   | 2. SHEET NUMBER  |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 3. SHEET NUMBER   | 4. SHEET NUMBER  |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 5. SHEET NUMBER   | 6. SHEET NUMBER  |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 7. SHEET NUMBER   | 8. SHEET NUMBER  |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 9. SHEET NUMBER   | 10. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 11. SHEET NUMBER  | 12. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 13. SHEET NUMBER  | 14. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 15. SHEET NUMBER  | 16. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 17. SHEET NUMBER  | 18. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 19. SHEET NUMBER  | 20. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 21. SHEET NUMBER  | 22. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 23. SHEET NUMBER  | 24. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 25. SHEET NUMBER  | 26. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 27. SHEET NUMBER  | 28. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 29. SHEET NUMBER  | 30. SHEET NUMBER |     |      |       |       |         |  |  |  |              |             |     |      |       |       |         |   |          |  |  |  |  |  |   |               |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |         |  |  |  |  |  |   |          |  |  |  |  |  |   |       |  |  |  |  |  |   |               |  |  |  |  |  |   |            |  |  |  |  |  |    |          |  |  |  |  |  |    |      |  |  |  |  |  |    |         |  |  |  |  |  |    |             |  |  |  |  |  |    |           |  |  |  |  |  |    |           |  |  |  |  |  |    |            |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |            |  |  |  |  |  |    |            |  |  |  |  |  |    |          |  |  |  |  |  |    |         |  |  |  |  |  |    |         |  |  |  |  |  |    |          |  |  |  |  |  |    |          |  |  |  |  |  |    |               |  |  |  |  |  |    |         |  |  |  |  |  |    |           |  |  |  |  |  |    |         |  |  |  |  |  |    |       |  |  |  |  |  |   |  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

[illegible]

Name: C00135  
COVER SHEET ENG 12 99  
LV: 35  
CO: 35  
WT: 2  
STG. MGR. GROUP - Gen Details & Plan Sheets

FOR INDEX OF SHEETS, SEE SHEET NO.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

# PROPOSED HIGHWAY PLANS

ROUTE  
SECTION  
PROJECT

COUNTY

1-4-1 1-4-2 1-4-3 1-4-4 1-4-5 1-4-6 1-4-7 1-4-8 1-4-9 1-4-10 1-4-11 1-4-12 1-4-13 1-4-14 1-4-15 1-4-16 1-4-17 1-4-18 1-4-19 1-4-20 1-4-21 1-4-22 1-4-23 1-4-24 1-4-25 1-4-26 1-4-27 1-4-28 1-4-29 1-4-30 1-4-31 1-4-32 1-4-33 1-4-34 1-4-35 1-4-36 1-4-37 1-4-38 1-4-39 1-4-40 1-4-41 1-4-42 1-4-43 1-4-44 1-4-45 1-4-46 1-4-47 1-4-48 1-4-49 1-4-50 1-4-51 1-4-52 1-4-53 1-4-54 1-4-55 1-4-56 1-4-57 1-4-58 1-4-59 1-4-60 1-4-61 1-4-62 1-4-63 1-4-64 1-4-65 1-4-66 1-4-67 1-4-68 1-4-69 1-4-70 1-4-71 1-4-72 1-4-73 1-4-74 1-4-75 1-4-76 1-4-77 1-4-78 1-4-79 1-4-80 1-4-81 1-4-82 1-4-83 1-4-84 1-4-85 1-4-86 1-4-87 1-4-88 1-4-89 1-4-90 1-4-91 1-4-92 1-4-93 1-4-94 1-4-95 1-4-96 1-4-97 1-4-98 1-4-99 1-4-100 1-4-101 1-4-102 1-4-103 1-4-104 1-4-105 1-4-106 1-4-107 1-4-108 1-4-109 1-4-110 1-4-111 1-4-112 1-4-113 1-4-114 1-4-115 1-4-116 1-4-117 1-4-118 1-4-119 1-4-120 1-4-121 1-4-122 1-4-123 1-4-124 1-4-125 1-4-126 1-4-127 1-4-128 1-4-129 1-4-130 1-4-131 1-4-132 1-4-133 1-4-134 1-4-135 1-4-136 1-4-137 1-4-138 1-4-139 1-4-140 1-4-141 1-4-142 1-4-143 1-4-144 1-4-145 1-4-146 1-4-147 1-4-148 1-4-149 1-4-150 1-4-151 1-4-152 1-4-153 1-4-154 1-4-155 1-4-156 1-4-157 1-4-158 1-4-159 1-4-160 1-4-161 1-4-162 1-4-163 1-4-164 1-4-165 1-4-166 1-4-167 1-4-168 1-4-169 1-4-170 1-4-171 1-4-172 1-4-173 1-4-174 1-4-175 1-4-176 1-4-177 1-4-178 1-4-179 1-4-180 1-4-181 1-4-182 1-4-183 1-4-184 1-4-185 1-4-186 1-4-187 1-4-188 1-4-189 1-4-190 1-4-191 1-4-192 1-4-193 1-4-194 1-4-195 1-4-196 1-4-197 1-4-198 1-4-199 1-4-200 1-4-201 1-4-202 1-4-203 1-4-204 1-4-205 1-4-206 1-4-207 1-4-208 1-4-209 1-4-210 1-4-211 1-4-212 1-4-213 1-4-214 1-4-215 1-4-216 1-4-217 1-4-218 1-4-219 1-4-220 1-4-221 1-4-222 1-4-223 1-4-224 1-4-225 1-4-226 1-4-227 1-4-228 1-4-229 1-4-230 1-4-231 1-4-232 1-4-233 1-4-234 1-4-235 1-4-236 1-4-237 1-4-238 1-4-239 1-4-240 1-4-241 1-4-242 1-4-243 1-4-244 1-4-245 1-4-246 1-4-247 1-4-248 1-4-249 1-4-250 1-4-251 1-4-252 1-4-253 1-4-254 1-4-255 1-4-256 1-4-257 1-4-258 1-4-259 1-4-260 1-4-261 1-4-262 1-4-263 1-4-264 1-4-265 1-4-266 1-4-267 1-4-268 1-4-269 1-4-270 1-4-271 1-4-272 1-4-273 1-4-274 1-4-275 1-4-276 1-4-277 1-4-278 1-4-279 1-4-280 1-4-281 1-4-282 1-4-283 1-4-284 1-4-285 1-4-286 1-4-287 1-4-288 1-4-289 1-4-290 1-4-291 1-4-292 1-4-293 1-4-294 1-4-295 1-4-296 1-4-297 1-4-298 1-4-299 1-4-300 1-4-301 1-4-302 1-4-303 1-4-304 1-4-305 1-4-306 1-4-307 1-4-308 1-4-309 1-4-310 1-4-311 1-4-312 1-4-313 1-4-314 1-4-315 1-4-316 1-4-317 1-4-318 1-4-319 1-4-320 1-4-321 1-4-322 1-4-323 1-4-324 1-4-325 1-4-326 1-4-327 1-4-328 1-4-329 1-4-330 1-4-331 1-4-332 1-4-333 1-4-334 1-4-335 1-4-336 1-4-337 1-4-338 1-4-339 1-4-340 1-4-341 1-4-342 1-4-343 1-4-344 1-4-345 1-4-346 1-4-347 1-4-348 1-4-349 1-4-350 1-4-351 1-4-352 1-4-353 1-4-354 1-4-355 1-4-356 1-4-357 1-4-358 1-4-359 1-4-360 1-4-361 1-4-362 1-4-363 1-4-364 1-4-365 1-4-366 1-4-367 1-4-368 1-4-369 1-4-370 1-4-371 1-4-372 1-4-373 1-4-374 1-4-375 1-4-376 1-4-377 1-4-378 1-4-379 1-4-380 1-4-381 1-4-382 1-4-383 1-4-384 1-4-385 1-4-386 1-4-387 1-4-388 1-4-389 1-4-390 1-4-391 1-4-392 1-4-393 1-4-394 1-4-395 1-4-396 1-4-397 1-4-398 1-4-399 1-4-400 1-4-401 1-4-402 1-4-403 1-4-404 1-4-405 1-4-406 1-4-407 1-4-408 1-4-409 1-4-410 1-4-411 1-4-412 1-4-413 1-4-414 1-4-415 1-4-416 1-4-417 1-4-418 1-4-419 1-4-420 1-4-421 1-4-422 1-4-423 1-4-424 1-4-425 1-4-426 1-4-427 1-4-428 1-4-429 1-4-430 1-4-431 1-4-432 1-4-433 1-4-434 1-4-435 1-4-436 1-4-437 1-4-438 1-4-439 1-4-440 1-4-441 1-4-442 1-4-443 1-4-444 1-4-445 1-4-446 1-4-447 1-4-448 1-4-449 1-4-450 1-4-451 1-4-452 1-4-453 1-4-454 1-4-455 1-4-456 1-4-457 1-4-458 1-4-459 1-4-460 1-4-461 1-4-462 1-4-463 1-4-464 1-4-465 1-4-466 1-4-467 1-4-468 1-4-469 1-4-470 1-4-471 1-4-472 1-4-473 1-4-474 1-4-475 1-4-476 1-4-477 1-4-478 1-4-479 1-4-480 1-4-481 1-4-482 1-4-483 1-4-484 1-4-485 1-4-486 1-4-487 1-4-488 1-4-489 1-4-490 1-4-491 1-4-492 1-4-493 1-4-494 1-4-495 1-4-496 1-4-497 1-4-498 1-4-499 1-4-500 1-4-501 1-4-502 1-4-5

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LV: 35  
CO: 35  
WT: 2  
STG. MGR. GROUP - Gen Details & Plan Sheets

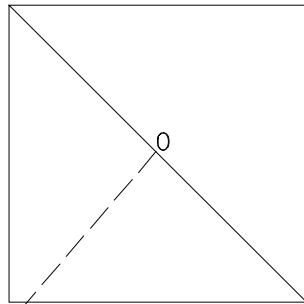
| STATE OF ILLINOIS |         | DEPARTMENT OF TRANSPORTATION |       |
|-------------------|---------|------------------------------|-------|
| PLAT OF HIGHWAYS  |         | COUNTY                       |       |
| ROUTE             | SECTION | PROJECT                      | OF    |
| NO.               | NO.     | NO.                          | OF    |
| SCALE             | SCALE   | SCALE                        | SCALE |

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LV: 35  
CO: 35  
WT: 2  
STG. MGR. GROUP - Gen Details & Plan Sheets

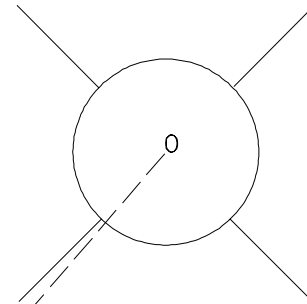
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|-------------------|---------|------------------------------|-------|
| RIGHT OF WAY PLAT |         | COUNTY                       |       |
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| NO.               | NO.     | NO.                          | OF    |
| SCALE             | SCALE   | SCALE                        | SCALE |

[illegible]

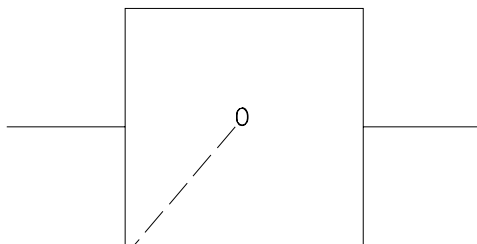
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LV: 19  
CO: 19  
WT: 0  
STG. MGR. GROUP - TSC



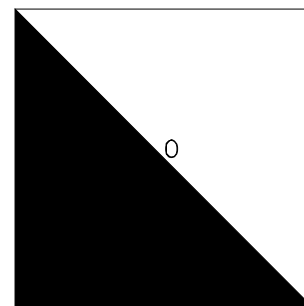
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WT: 0  
STG. MGR. GROUP - TSC



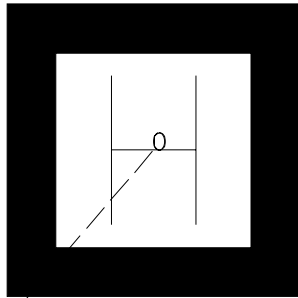
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LV: 19  
CO: 19  
WT: 0  
STG. MGR. GROUP - TSC



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LV: 21  
CO: 21  
WT: 1  
STG. MGR. GROUP - TSC



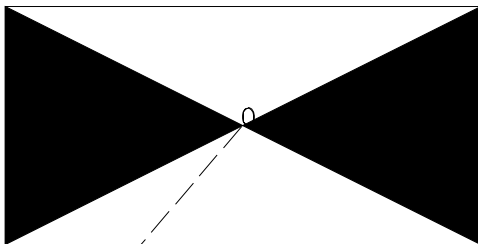
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 LV: 2I  
 CO: 2I  
 WT: I  
 STG. MGR. GROUP - TSC



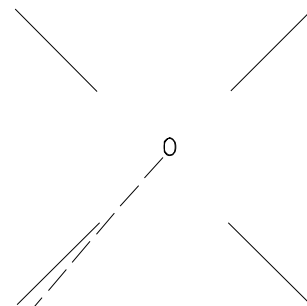
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 LV: 2I  
 CO: 2I  
 WT: I  
 STG. MGR. GROUP - TSC



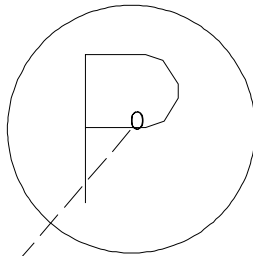
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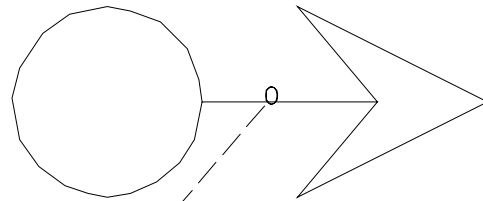
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 CO: 2I  
 WT: I  
 STG. MGR. GROUP - TSC



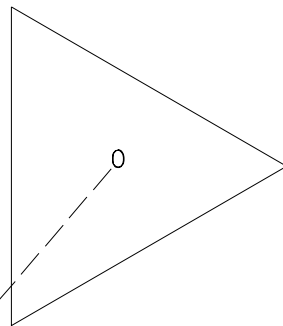
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WT: 0  
STG. MGR. GROUP - TSC



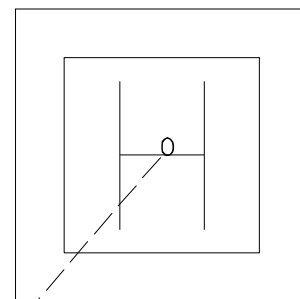
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LV: 19  
CO: 19  
WT: 0  
STG. MGR. GROUP - TSC



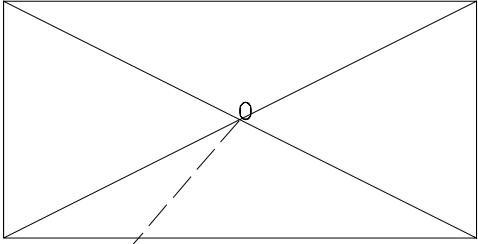
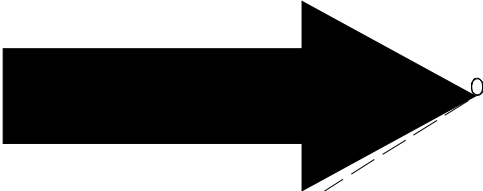
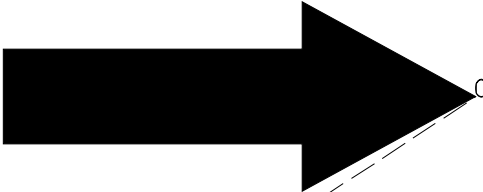
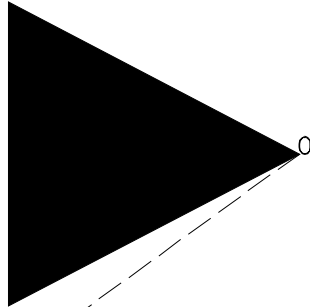
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STG. MGR. GROUP - TSC

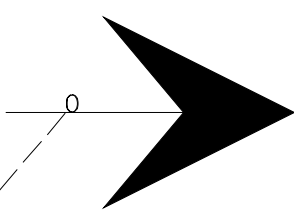
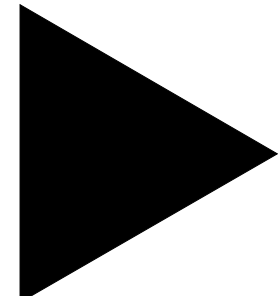




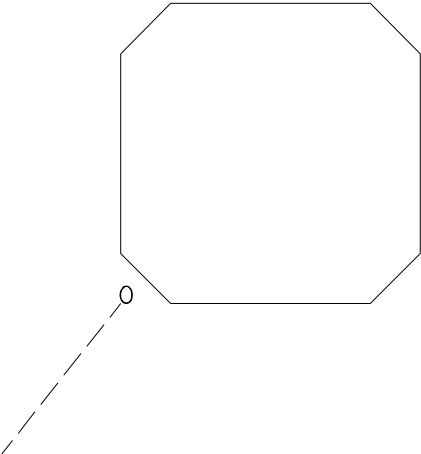
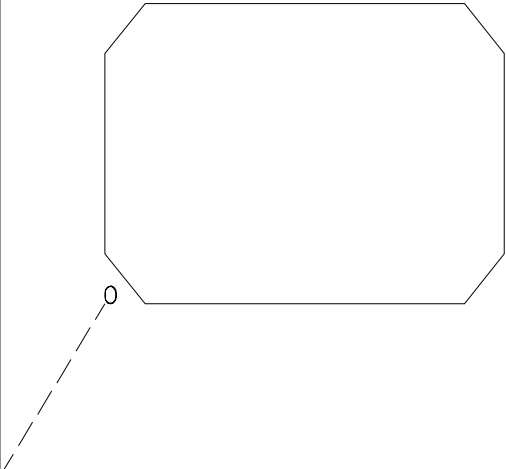
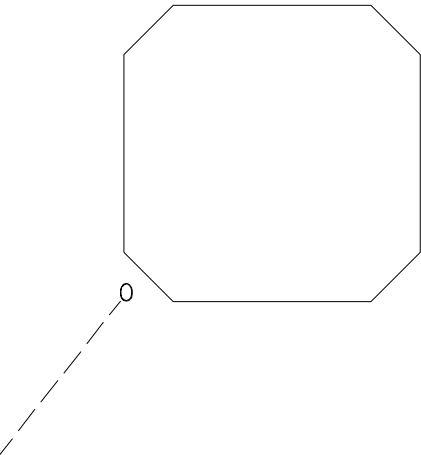
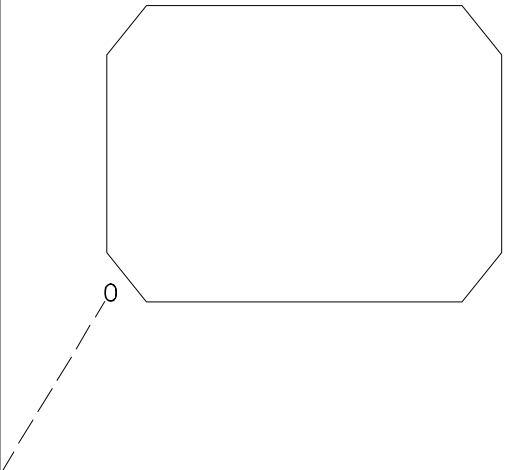
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CO: 19  
WT: 0  
STG. MGR. GROUP - TSC

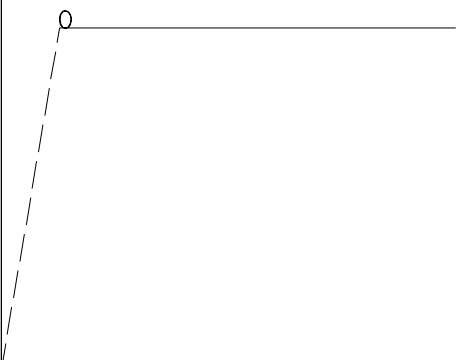




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| <p>Name: C00570<br/>TSC CONTROLLER EX<br/>LV: 19<br/>CO: 19<br/>WT: 0<br/>STG. MGR. GROUP - TSC</p>         | <p>Name: C00582<br/>TSC TRAF FLOW ARROW PR<br/>LV: 21<br/>CO: 21<br/>WT: 0<br/>STG. MGR. GROUP - TSC</p>  |
| <p>Name: C00583<br/>TSC TRAF FLOW ARROW EX<br/>LV: 19<br/>CO: 19<br/>WT: 0<br/>STG. MGR. GROUP - TSC</p>  | <p>Name: C00614<br/>TSC VEH MOVE TERM<br/>LV: 36<br/>CO: 36<br/>WT: 0<br/>STG. MGR. GROUP - TSC</p>    |

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| <p>Name: C00619<br/>TSC RAMP METER PR<br/>LV: 21<br/>CO: 21<br/>WT: 1<br/>STG. MGR. GROUP - TSC</p>          | <p>Name: C00620<br/>TSC FLASHER PR<br/>LV: 21<br/>CO: 21<br/>WT: 0<br/>STG. MGR. GROUP - TSC</p>            |
| <p>Name: C00745<br/>TSC POLYETH DUCT PAT EX<br/>LV: 19<br/>CO: 19<br/>WT: 0<br/>STG. MGR. GROUP - TSC</p>  | <p>Name: C00747<br/>TSC POLYETH DUCT PAT PR<br/>LV: 21<br/>CO: 21<br/>WT: 1<br/>STG. MGR. GROUP - TSC</p>  |

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| <p>Name: C00900<br/>TSC DET LOOP SMALL EX<br/>LV: 19<br/>CO: 19<br/>WT: 0<br/>STG. MGR. GROUP - TSC</p>   | <p>Name: C00901<br/>TSC DET LOOP LARGE EX<br/>LV: 19<br/>CO: 19<br/>WT: 0<br/>STG. MGR. GROUP - TSC</p>   |
| <p>Name: C00902<br/>TSC DET LOOP SMALL PR<br/>LV: 21<br/>CO: 21<br/>WT: 1<br/>STG. MGR. GROUP - TSC</p>  | <p>Name: C00903<br/>TSC DET LOOP LARGE PR<br/>LV: 21<br/>CO: 21<br/>WT: 1<br/>STG. MGR. GROUP - TSC</p>  |

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|--|--|
| <p>Name: C00937<br/>TSC UNDGRD CABLE EX<br/>LV: 19<br/>CO: 19<br/>WT: 0<br/>STG. MGR. GROUP - TSC</p>  |  |
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